

Wind Turbine Operations and Maintenance Market by Type (Scheduled Maintenance, Unscheduled Maintenance), Location type (Onshore, Offshore), Turbine Connectivity (Grid-connected, Standalone), and Region - Global Forecast & Trends to 2030

<https://marketpublishers.com/r/WEBE6225B80FEN.html>

Date: May 2025

Pages: 240

Price: US\$ 4,950.00 (Single User License)

ID: WEBE6225B80FEN

Abstracts

The global wind turbine operations and maintenance (O&M) market is projected to reach USD 59.67 billion by 2030, up from USD 35.62 billion in 2024, registering a CAGR of 8.5% over the forecast period. The expansion of offshore wind farms and the introduction of predictive maintenance technologies are fueling the market. The implementation of environmental targets and policy mandates across regions is further compelling the market to consider longer-term asset management solutions. Key global and regional players have created a strong footprint in the wind turbine operation and maintenance market by developing diverse service portfolios derived from extensive O&M experience.

“The offshore segment is expected to register the highest growth during the forecast period”

The offshore wind turbine operations and maintenance market is experiencing growth due to the global demand for sustainable energy and the substantial potential of offshore wind farms. Offshore wind farms benefit from more consistent wind speeds, but they are also much more complex to operate, demonstrating the need for more advanced O&M services. Recent advancements in the realm of monitoring and diagnosing tools, including remote and predictive maintenance technologies, are improving efficiencies and reducing operational costs. Additionally, as both government and private investment increase in offshore wind projects, the growth prospects of offshore O&M are growing.

“The unscheduled segment accounted for the largest market share in 2024”

The unscheduled segment of the wind turbine operations and maintenance market is influenced by the urgent need to respond to unexpected failures of components. The demand for unscheduled maintenance is affected by the age and state of the installed turbine base, as older assets will fail at a higher frequency. These unexpected breakdowns can lead to prolonged turbine downtime, lost energy output, and increased O&M expenses, particularly for offshore wind projects where access and repair costs are significantly higher. However, digitalization is transforming the unscheduled segment by enabling real-time condition monitoring, predictive diagnostics, and automated fault alerts using SCADA data, IoT sensors, and AI.

“Asia Pacific to account for the largest share of wind turbine operations and maintenance market during the forecast period”

The Asia Pacific region is the largest wind turbine operations and maintenance (O&M) market because of supportive governmental policies on renewable energy and strong investments in both offshore and onshore wind projects. Major markets, including China, India, and Japan, are already contributing to growth with high renewable energy targets. Globally recognized targets include China’s plan to install 1200 GW of wind and solar capacity by 2030, and India's participation in Renewable Energy Certificate programs. The growth in the Asia Pacific region is expected to be further strengthened by technological innovations such as AI-enabled predictive maintenance and remote monitoring systems that enhance the efficiency of turbines and reduce downtime.

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- 57%, Tier 2- 29%, and Tier 3- 14%

By Designation: C-Level- 35%, Managers- 20%, and Others- 45%

By Region: North America - 20%, Europe - 15%, Asia Pacific - 30%, the Middle East & Africa - 25%, and South America - 10%

Note: The tiers of the companies are defined based on their total revenues as of 2023. Tier 1: > USD 1 billion, Tier 2: From USD 500 million to USD 1 billion, and Tier 3: Siemens Gamesa Renewable Energy, S.A.U. (Spain), Nordex SE (Germany), Vestas (Denmark), GE Vernova (US), Goldwind (China), Suzlon Energy Limited (India), Wind Prospect Sp. z o.o. (Poland), Mingyang Smart Energy Group Co., Ltd. (China), Global Wind Service (Denmark), BHI Energy (US), EOS Engineering & Service Co., Ltd. (Japan), RES (UK), and Deutsche Windtechnik AG (Germany) are some of the key players in the wind turbine operation and maintenance (O&M) market. The study includes an in-depth competitive analysis of these key players in the wind turbine operation and maintenance (O&M) market.

Research Coverage:

The report defines, describes, and forecasts the wind turbine operation and maintenance (O&M) market by type (Scheduled and unscheduled), location type (Onshore and offshore), turbine connectivity (Grid connected and standalone), and region (North America, Europe, Asia Pacific, Middle East & Africa, and South America). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the wind turbine operation and maintenance market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, and services; key strategies such as contracts, partnerships, agreements, mergers, and acquisitions; and recent developments associated with the wind turbine operation and maintenance market. Competitive analysis of startups in the wind turbine operation and maintenance market ecosystem is covered in this report.

Key Benefits of Buying the Report

Analysis of key drivers (Government policies and mandates regarding renewable energy targets, expansion of wind energy installations, and need for efficient maintenance to maximize wind turbine lifespan), restraints (High O&M costs and weather-related constraints, regulatory uncertainty presents significant challenges), opportunities (Increasing investments in clean energy projects, aging wind turbine fleet driving O&M transformation, and shift towards predictive maintenance and remote monitoring), and challenges (Access to offshore sites) influencing the growth of the wind turbine operation and maintenance market

Product Development/Innovation: New technology is redefining the market for wind turbine operations and maintenance and will eventually be designed to use

superior digital tools enabled by automation. The global wind turbine operations and maintenance (O&M) market is aligned with ongoing technological advancements, ongoing research and development aimed at increasing turbine performance and reliability. New service offerings are based on predictive maintenance, remote monitoring, and advanced analytics that improve overall turbine uptime and energy production. These advancements will continue to drive growth in the market as operators aim to reduce their costs and improve efficiency.

Market Development: In April 2025, GE Vernova and BBWind reached their nineteenth agreement to supply onshore wind turbines for community wind farms in Germany. Under this agreement, GE Vernova will supply three 6.0 MW-164m wind turbines for the Heiden and Dorsten projects in North Rhine-Westphalia. The wind turbines will be manufactured at GE's facility in Salzbergen, Germany. This alliance is part of Germany's goal of achieving 80% renewable energy supplies by 2030. This report provides a detailed analysis of O&M strategies that are critical for project success, providing stakeholders with actionable insights into trends and opportunities for growth in the wind energy market.

Market Diversification: Siemens Gamesa Renewable Energy, S.A.U. and a TPG-led consortium (with MAVCO Investments) agreed to purchase Siemens Gamesa's onshore wind turbine business in India and Sri Lanka in March 2025. The consortium will own 90% of the onshore business while Siemens Gamesa will own a 10% stake and will license the technology through a long-term licensing agreement. The deal includes the transfer of about 1,000 employees, as well as existing manufacturing facilities, to a new independent company that will manufacture, install, and service onshore wind turbines in the area. The report provides an in-depth look at O&M strategies that can help support market diversification by providing stakeholders with new service/operating models, new partnership models across regions, and technology-enabled business lines. The report identifies opportunities to expand beyond traditional maintenance and identifies geographical and customer segments that are underserved and are open to strategic entry.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Siemens Gamesa Renewable Energy, S.A.U. (Spain), Nordex SE (Germany), Vestas (Denmark), GE Vernova (US), Goldwind (China), Suzlon Energy Limited (India), Wind

Prospect Sp. z o.o. (Poland), Mingyang Smart Energy Group Co., Ltd. (China), Global Wind Service (Denmark), BHI Energy (US), ReGen Powertech (India), SKF (Sweden), and Zephyr Wind Services (US), among others, in the wind turbine operation and maintenance market.

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
 - 1.3.1 MARKET SEGMENTATION AND REGIONAL SCOPE
 - 1.3.2 YEARS CONSIDERED
 - 1.3.3 INCLUSIONS AND EXCLUSIONS
- 1.4 CURRENCY CONSIDERED
- 1.5 UNIT CONSIDERED
- 1.6 LIMITATIONS
- 1.7 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 List of key secondary sources
 - 2.1.1.2 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 List of primary interview participants
 - 2.1.2.2 Key industry insights
 - 2.1.2.3 Breakdown of primaries
 - 2.1.2.4 Key data from primary sources
- 2.2 DATA TRIANGULATION
- 2.3 MARKET SIZE ESTIMATION
 - 2.3.1 BOTTOM-UP APPROACH
 - 2.3.2 TOP-DOWN APPROACH
 - 2.3.3 DEMAND-SIDE ANALYSIS
 - 2.3.3.1 Demand-side assumptions
 - 2.3.3.2 Demand-side calculations
 - 2.3.4 SUPPLY-SIDE ANALYSIS
 - 2.3.4.1 Supply-side assumptions
 - 2.3.4.2 Supply-side calculations
- 2.4 RESEARCH ASSUMPTIONS
- 2.5 RESEARCH LIMITATIONS
- 2.6 RISK ANALYSIS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN WIND TURBINE OPERATIONS

AND MAINTENANCE MARKET

4.2 ASIA PACIFIC WIND TURBINE OPERATIONS AND MAINTENANCE MARKET, BY LOCATION TYPE AND COUNTRY

4.3 WIND TURBINE OPERATIONS AND MAINTENANCE MARKET, BY LOCATION TYPE

4.4 WIND TURBINE OPERATIONS AND MAINTENANCE MARKET, BY TYPE

4.5 WIND TURBINE OPERATIONS AND MAINTENANCE MARKET, BY TURBINE CONNECTIVITY

4.6 WIND TURBINE OPERATIONS AND MAINTENANCE MARKET, BY REGION

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Government policies regarding renewable energy targets

5.2.1.2 Expansion of wind energy installations

5.2.1.3 Need for efficient maintenance to maximize wind turbine lifespan

5.2.2 RESTRAINTS

5.2.2.1 High O&M costs and weather-related constraints

5.2.2.2 Fragmented and evolving regulatory landscape

5.2.3 OPPORTUNITIES

5.2.3.1 Increasing investments in clean energy projects

5.2.3.2 Increase in aging wind infrastructure

5.2.3.3 Shift towards predictive maintenance and remote monitoring

5.2.4 CHALLENGES

5.2.4.1 Access to offshore sites

5.2.4.2 Overdependence on OEMs

5.3 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

5.4 SUPPLY CHAIN ANALYSIS

5.5 ECOSYSTEM ANALYSIS

5.6 TRADE ANALYSIS

- 5.6.1 EXPORT SCENARIO (HS CODE 850231)
- 5.6.2 IMPORT SCENARIO (HS CODE 850231)
- 5.7 CASE STUDY ANALYSIS
 - 5.7.1 OPTIMIZING WIND TURBINE MAINTENANCE AT LOS MONTEROS WIND FARM
 - 5.7.2 ENHANCING OFFSHORE WIND OPERATIONS WITH 3D LASER SCANNING AND DIGITAL TWINS
- 5.8 TECHNOLOGY ANALYSIS
 - 5.8.1 KEY TECHNOLOGIES
 - 5.8.1.1 Predictive maintenance
 - 5.8.1.2 Digital twin technology
 - 5.8.2 COMPLEMENTARY TECHNOLOGIES
 - 5.8.2.1 IoT and smart sensors
 - 5.8.2.2 AI and ML for wind turbine operations and maintenance
- 5.9 PRICING ANALYSIS
 - 5.9.1 INDICATIVE PRICING OF WIND TURBINE OPERATIONS AND MAINTENANCE, BY LOCATION TYPE, 2024
 - 5.9.2 AVERAGE SELLING PRICE TREND OF ONSHORE WIND TURBINE OPERATIONS AND MAINTENANCE, BY REGION, 2021–2024
- 5.10 PATENT ANALYSIS
 - 5.10.1 LIST OF PATENTS, 2020–2024
- 5.11 KEY CONFERENCES AND EVENTS, 2025–2026
- 5.12 INVESTMENT AND FUNDING SCENARIO
- 5.13 REGULATORY LANDSCAPE
 - 5.13.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
 - 5.13.2 CODES AND REGULATIONS
- 5.14 IMPACT OF 2025 US TARIFF – OVERVIEW
 - 5.14.1 INTRODUCTION
 - 5.14.2 KEY TARIFF RATES
 - 5.14.3 PRICE IMPACT ANALYSIS
 - 5.14.4 IMPACT ON COUNTRY/REGION
 - 5.14.4.1 US
 - 5.14.4.2 Europe
 - 5.14.4.3 Asia Pacific
 - 5.14.5 IMPACT ON END-USE INDUSTRIES
- 5.15 PORTER'S FIVE FORCES ANALYSIS
 - 5.15.1 THREAT OF SUBSTITUTES

- 5.15.2 BARGAINING POWER OF SUPPLIERS
- 5.15.3 BARGAINING POWER OF BUYERS
- 5.15.4 THREAT OF NEW ENTRANTS
- 5.15.5 INTENSITY OF COMPETITIVE RIVALRY
- 5.16 KEY STAKEHOLDERS AND BUYING CRITERIA
 - 5.16.1 KEY STAKEHOLDERS IN BUYING PROCESS
 - 5.16.2 BUYING CRITERIA
- 5.17 IMPACT OF GEN AI/AI ON WIND TURBINE OPERATIONS AND MAINTENANCE MARKET
 - 5.17.1 ADOPTION OF GEN AI/AI IN WIND TURBINE OPERATIONS AND MAINTENANCE MARKET
 - 5.17.2 IMPACT OF GEN AI/AI ON WIND TURBINE OPERATIONS AND MAINTENANCE MARKET, BY LOCATION TYPE
 - 5.17.3 IMPACT OF GEN AI/AI ON WIND TURBINE OPERATIONS AND MAINTENANCE MARKET, BY REGION
- 5.18 GLOBAL MACROECONOMIC OUTLOOK
 - 5.18.1 INTRODUCTION
 - 5.18.2 GDP TRENDS AND FORECAST
 - 5.18.3 IMPACT OF INFLATION ON WIND TURBINE OPERATIONS AND MAINTENANCE MARKET

6 WIND TURBINE OPERATIONS AND MAINTENANCE MARKET,

BY LOCATION TYPE

6.1 INTRODUCTION

6.2 ONSHORE

6.2.1 AGING INFRASTRUCTURE AND INCREASED ONSHORE EXPANSION
FUELING NEED FOR O&M

6.3 OFFSHORE

6.3.1 RAPID EXPANSION OF OFFSHORE WIND ENERGY TO DRIVE MARKET
GROWTH

7 WIND TURBINE OPERATIONS AND MAINTENANCE MARKET, BY TYPE

7.1 INTRODUCTION

7.2 SCHEDULED

7.2.1 NEED FOR ENSURING LONG-TERM TURBINE PERFORMANCE AND
OPERATIONAL STABILITY TO DRIVE DEMAND

7.3 UNSCHEDULED

7.3.1 AGING TURBINES FUELING NEED FOR RAPID FAULT RESPONSE AND ASSET LIFECYCLE PRESERVATION

8 WIND TURBINE OPERATIONS AND MAINTENANCE MARKET, BY TURBINE CONNECTIVITY

8.1 INTRODUCTION

8.2 GRID-CONNECTED

8.2.1 INCREASE IN LARGE-SCALE UTILITY-BASED PROJECTS TO FUEL DEMAND

8.3 STANDALONE

8.3.1 GROWTH IN INSTALLATION OF SMALL TURBINES IN REMOTE AREAS TO DRIVE GROWTH

9 WIND TURBINE OPERATIONS AND MAINTENANCE MARKET, BY REGION

9.1 INTRODUCTION

9.2 ASIA PACIFIC

9.2.1 CHINA

9.2.1.1 Aging fleet and tech upgrades fueling rapid market growth

9.2.2 JAPAN

9.2.2.1 Technological innovation for efficient wind turbine maintenance and grid integration to support market growth

9.2.3 SOUTH KOREA

9.2.3.1 Strong government support fueling market growth

9.2.4 INDIA

9.2.4.1 Need for enhancing wind energy capabilities and improving reliability to fuel market growth

9.2.5 AUSTRALIA

9.2.5.1 Government net-zero emissions target to drive market growth

9.2.6 REST OF ASIA PACIFIC

9.2.6.1 Expanding wind energy capacity to support market growth

9.3 EUROPE

9.3.1 GERMANY

9.3.1.1 Expanding wind energy infrastructure to support market growth

9.3.2 UK

9.3.2.1 Expanding offshore wind capacity and supporting government policies to drive market

9.3.3 ITALY

9.3.3.1 Strong renewable energy goals to drive market growth

9.3.4 FRANCE

9.3.4.1 Significant expansion in onshore wind capacity to fuel demand

9.3.5 SWEDEN

9.3.5.1 Growing need to maintain wind turbines and increase energy efficiency to drive O&M services

9.3.6 SPAIN

9.3.6.1 Rising need for wind turbine upkeep and improved energy efficiency to fuel demand for O&M services

9.3.7 REST OF EUROPE

9.4 NORTH AMERICA

9.4.1 US

9.4.1.1 Need for ensuring long-term efficiency and reliability of wind assets to drive maintenance activities

9.4.2 CANADA

9.4.2.1 Expanding wind capacity and aging assets driving market growth

9.4.3 MEXICO

9.4.3.1 Policy support and renewable infrastructure expansion fueling demand for wind turbines

9.5 SOUTH AMERICA

9.5.1 BRAZIL

9.5.1.1 Strong presence of onshore wind energy sector and government support to drive growth

9.5.2 ARGENTINA

9.5.2.1 Abundant wind resources and strong policies to drive significant growth

9.5.3 REST OF SOUTH AMERICA

9.5.3.1 Supportive policies and rising investments to boost wind energy growth

9.6 MIDDLE EAST & AFRICA

9.6.1 SAUDI ARABIA

9.6.1.1 Government-backed megaprojects and rising clean energy initiatives to propel market

9.6.2 EGYPT

9.6.2.1 Strong government targets and large-scale project rollouts to drive market

9.6.3 SOUTH AFRICA

9.6.3.1 Growing renewable energy capacity and strong government backing to fuel turbine O&M market

9.6.4 REST OF MIDDLE EAST & AFRICA

9.6.4.1 Supportive policies and rising investments to boost wind

energy growth

10 COMPETITIVE LANDSCAPE

10.1 OVERVIEW

10.2 KEY PLAYER STRATEGIES/RIGHT TO WIN, 2022–2025

10.2.1 MARKET SHARE ANALYSIS, 2024

10.3 REVENUE ANALYSIS, 2020–2024

10.4 COMPANY VALUATION AND FINANCIAL METRICS

10.5 BRAND/PRODUCT COMPARISON

10.6 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024

10.6.1 STARS

10.6.2 EMERGING LEADERS

10.6.3 PERVASIVE PLAYERS

10.6.4 PARTICIPANTS

10.6.5 COMPANY FOOTPRINT: KEY PLAYERS, 2024

10.6.5.1 Market footprint

10.6.5.2 Company footprint

10.6.5.3 Region footprint

10.6.5.4 Type footprint

10.6.5.5 Location type footprint

10.7 COMPANY EVALUATION MATRIX: START-UPS/SMES, 2024

10.7.1 PROGRESSIVE COMPANIES

10.7.2 RESPONSIVE COMPANIES

10.7.3 DYNAMIC COMPANIES

10.7.4 STARTING BLOCKS

10.7.5 COMPETITIVE BENCHMARKING, KEY START-UPS/SMES, 2024

10.7.5.1 List of key start-ups/SMEs

10.7.5.2 Competitive benchmarking of key start-ups/SMEs

10.8 COMPETITIVE SCENARIO

10.8.1 DEALS

10.8.1.1 Expansions

10.8.1.2 Others

11 COMPANY PROFILES

11.1 KEY PLAYERS

11.1.1 SIEMENS GAMESA RENEWABLE ENERGY, S.A.U.

11.1.1.1 Business overview

- 11.1.1.2 Products/Solutions/Services offered
- 11.1.1.3 Recent developments
 - 11.1.1.3.1 Deals
- 11.1.1.4 MnM view
 - 11.1.1.4.1 Key strengths
 - 11.1.1.4.2 Strategic choices
 - 11.1.1.4.3 Weaknesses and competitive threats
- 11.1.2 GE VERNOVA
 - 11.1.2.1 Business overview
 - 11.1.2.2 Products/Solutions/Services offered
 - 11.1.2.3 Recent developments
 - 11.1.2.3.1 Deals
 - 11.1.2.4 MnM view
 - 11.1.2.4.1 Key strengths
 - 11.1.2.4.2 Strategic choices
 - 11.1.2.4.3 Weaknesses and competitive threats
- 11.1.3 GOLDWIND
 - 11.1.3.1 Business overview
 - 11.1.3.2 Products/Solutions/Services offered
 - 11.1.3.3 Recent developments
 - 11.1.3.3.1 Deals
 - 11.1.3.4 MnM view
 - 11.1.3.4.1 Key strengths
 - 11.1.3.4.2 Strategic choices
 - 11.1.3.4.3 Weaknesses and competitive threats
- 11.1.4 NORDEX SE
 - 11.1.4.1 Business overview
 - 11.1.4.2 Products/Solutions/Services offered
 - 11.1.4.3 Recent developments
 - 11.1.4.3.1 Deals
 - 11.1.4.3.2 Others
 - 11.1.4.4 MnM view
 - 11.1.4.4.1 Key strengths
 - 11.1.4.4.2 Strategic choices
 - 11.1.4.4.3 Weaknesses and competitive threats
- 11.1.5 VESTAS
 - 11.1.5.1 Business overview
 - 11.1.5.2 Products/Solutions/Services offered
 - 11.1.5.3 Recent developments

- 11.1.5.3.1 Deals
- 11.1.5.3.2 Expansions
- 11.1.5.4 MnM view
 - 11.1.5.4.1 Key strengths
 - 11.1.5.4.2 Strategic choices
 - 11.1.5.4.3 Weaknesses and competitive threats
- 11.1.6 SUZLON ENERGY LIMITED
 - 11.1.6.1 Business overview
 - 11.1.6.2 Products/Solutions/Services offered
 - 11.1.6.3 Recent developments
 - 11.1.6.3.1 Deals
- 11.1.7 MINGYANG SMART ENERGY GROUP CO., LTD.
 - 11.1.7.1 Business overview
 - 11.1.7.2 Products/Solutions/Services offered
 - 11.1.7.3 Recent developments
 - 11.1.7.3.1 Deals
- 11.1.8 SKF
 - 11.1.8.1 Business overview
 - 11.1.8.2 Products/Solutions/Services offered
 - 11.1.8.3 Recent developments
 - 11.1.8.3.1 Deals
- 11.1.9 GLOBAL WIND SERVICE
 - 11.1.9.1 Business overview
 - 11.1.9.2 Products/Solutions/Services offered
 - 11.1.9.3 Recent developments
 - 11.1.9.3.1 Deals
 - 11.1.9.3.2 Expansions
- 11.1.10 RES
 - 11.1.10.1 Business overview
 - 11.1.10.2 Products/Solutions/Services offered
 - 11.1.10.3 Recent developments
 - 11.1.10.3.1 Deals
- 11.1.11 ENVISION GROUP
 - 11.1.11.1 Business overview
 - 11.1.11.2 Products/Solutions/Services offered
 - 11.1.11.3 Recent developments
 - 11.1.11.3.1 Deals
 - 11.1.11.3.2 Others
- 11.1.12 WINDEY ENERGY TECHNOLOGY GROUP CO., LTD.

- 11.1.12.1 Business overview
- 11.1.12.2 Products/Solutions/Services offered
- 11.1.12.3 Recent developments
 - 11.1.12.3.1 Deals
 - 11.1.12.3.2 Expansions
- 11.1.13 SANY RENEWABLE ENERGY CO., LTD.
 - 11.1.13.1 Business overview
 - 11.1.13.2 Products/Solutions/Services offered
 - 11.1.13.3 Recent developments
 - 11.1.13.3.1 Deals
- 11.1.14 ENERCON GLOBAL GMBH
 - 11.1.14.1 Business overview
 - 11.1.14.2 Products/Solutions/Services offered
 - 11.1.14.3 Recent developments
 - 11.1.14.3.1 Deals
 - 11.1.14.3.2 Others
- 11.1.15 DEUTSCHE WINDTECHNIK AG
 - 11.1.15.1 Business overview
 - 11.1.15.2 Products/Solutions/Services offered
 - 11.1.15.3 Recent developments
 - 11.1.15.3.1 Deals
 - 11.1.15.3.2 Expansions
 - 11.1.15.3.3 Others
- 11.2 OTHER PLAYERS
 - 11.2.1 BHI ENERGY
 - 11.2.2 WIND PROSPECT SP. Z O.O.
 - 11.2.3 EOS ENGINEERING & SERVICE CO., LTD.
 - 11.2.4 CRRC SHANDONG WIND POWER CO., LTD.
 - 11.2.5 REGEN POWERTECH
 - 11.2.6 NEARTHLAB
 - 11.2.7 ZEPHYR WIND SERVICES
 - 11.2.8 ALERION TECHNOLOGIES
 - 11.2.9 RRB ENERGY
 - 11.2.10 RTS WIND AG
 - 11.2.11 AERONES ENGINEERING

12 APPENDIX

12.1 INSIGHTS FROM INDUSTRY EXPERTS

12.2 DISCUSSION GUIDE

12.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

12.4 CUSTOMIZATION OPTIONS

12.5 RELATED REPORTS

12.6 AUTHOR DETAILS

I would like to order

Product name: Wind Turbine Operations and Maintenance Market by Type (Scheduled Maintenance, Unscheduled Maintenance), Location type (Onshore, Offshore), Turbine Connectivity (Grid-connected, Standalone), and Region - Global Forecast & Trends to 2030

Product link: <https://marketpublishers.com/r/WEBE6225B80FEN.html>

Price: US\$ 4,950.00 (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/WEBE6225B80FEN.html>