

Wind Turbine Maintenance, Repair and Overhaul (MRO) - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Wind Turbine Maintenance, Repair and Overhaul Market is expected to register a CAGR of 15.86% during the forecast period.

Key Highlights

- Increasing, offshore deployment of wind turbine is likely to drive the global wind turbine maintenance, repair, and overhaul (MRO) market, thus making it fastest growing segment during the forecast period.
- Moreover, the adoption of wind power for power generation is increasing significantly. Various countries are investing in the wind energy market which likely to increase the requirement for maintenance. Middle-East and Africa region witnessing significant growth in wind power plant which is likely to provide the opportunity to the growth of global wind turbine maintenance, repair & overhaul market.
- Asia-Pacific is expected to be the fastest growing region, owing to the largest and fastest increase in wind power installed capacity in 2020.

Wind Turbine MRO Market Trends

Offshore Wind Installations Expected to Witness Significant Growth

- As demand for energy is rising, major countries and companies are turning towards the adoption of renewable energy as it has the ability to provide clean energy. The adoption of offshore wind energy with advance technology attracted the countries and companies for high investment.

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- By location of deployment, the offshore industry is expected to remain the driver of the global wind turbine industry investments during the forecast period, owing to declining costs and improved technology.
- The global offshore market remained stable in 2020, with 6.06 GW of new additions, almost the same as in 2019. The total cumulative offshore installations have reached 35.3 GW, representing a 21.7% increase in cumulative offshore wind installed capacity over the previous year.
- The offshore wind industry witnessed major installations in 2020. For instance, China installed a 3 GW offshore wind in a single year, followed by the Netherlands (installed 1.5 GW), Belgium (installed 706 MW), the United Kingdom (installed 483 MW), and Germany (237 MW). However, the slowdown of growth in terms of new installation in the United Kingdom was mainly due to the gap between the execution of projects in the Contracts for Difference (CfD) 1 and CfD 2 rounds. Furthermore, in Germany, the slowdown in new installations was primarily caused by unfavorable conditions and a lower level of the short-term offshore wind project pipeline.
- The expected increase in the deployment of wind turbines in more complex and challenging environments, such as farther offshore, coupled with the growing capacity of the wind turbine capacity, has put additional pressure on the operating components of the wind turbine. This results in premature failure of the components, such as gearbox and other components, and is likely to cause a significant downturn in wind farms. Additionally, the costs involved in providing MRO services are much higher than onshore sites. Factors, such as increased material, service, and hard-to-access terrains, are restraining growth compared to onshore facilities.
- Therefore, owing to the above points, offshore wind deployments are expected to witness significant growth in wind turbine maintenance, repair & overhaul market during the forecast period.

Asia-Pacific Expected to be the Fastest Growing Market

- Asia-Pacific is the fastest growing wind energy market in the world, owing to the contribution of China. The region has a cumulative installed capacity of 346.70 GW, of which onshore wind power installed capacity is 336.29 GW and offshore wind power installed capacity is 10.41 GW.
- As of 2020, China had the largest wind power installed capacity in Asia-Pacific, around 278.32 GW. The country is also considered among the top markets in the onshore wind power industry globally. In 2020, China added up to 58.93 GW of new wind power, with 48.94 GW onshore installations and 9.99 GW offshore installations. All of this indicates that China is expected to be the largest market for maintenance, repair, and overhaul services in the Asia-Pacific region.
- On the other hand, India, the second-largest country in the Asia-Pacific region in terms of wind energy installed capacity, sat only with a capacity of 38.625 GW as of 2020. However, over the next ten years, the electricity demand is expected to double in the country of 1.35 billion people. Accordingly, the Indian government has set a target of 175 GW of renewable energy capacity by 2022, of which 60 GW is expected to come from wind energy, and a target of 450 GW by 2030, of which 140 GW is expected to be wind-based generation. The country boasts a technical potential at a 120-meter hub height of a vast 695 GW.
- South Korea also aims to have a total renewable energy capacity of 63.8 GW by 2030, with approximately 18 GW coming from wind power. The international players, such as Orsted, have stated that South Korea may thrive from wind power generation, particularly in offshore areas considering its geographical characteristics.
- This, in turn, is expected to present Asia-Pacific as an excellent business destination for players involved in the global wind turbine maintenance, repair & overhaul business during the forecast period.

Wind Turbine MRO Industry Overview

The global wind turbine maintenance, repair, and overhaul market is moderately fragmented. Some of the key players in this market include Siemens Gamesa Renewable Energy SA, General Electric Company, Suzlon Energy Ltd, ABB Ltd, and Vestas Wind

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Systems A/S among others.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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