

Wind Bearings: -- Markets Reach \$9.6 Billion By 2024

LEXINGTON, Massachusetts (August 29, 2018) – WinterGreen Research announces that it has published a new study *Wind Bearings: Market Shares, Strategy, and Forecasts, Worldwide, 2018 to 2024*. The 2018 study has 427 pages, 256 tables and figures. The vendors in the wind bearings industry have invested in high-quality technology and processes to develop leading edge wind turbine capability a being implemented in the on shore and offshore sites.

There are a number of different bearing designs that can be found in the gearbox of a wind turbine, but most often, various combinations of CRBs, TRBs and ball bearings are used.

If the bearings are bigger, the bearings last longer, but making the bearings larger increases friction, which decreases turbine efficiency. Current bearings have a replacement cost that is too high. What we need is a quantum leap in bearing technology – bearing materials which are at least ten times tougher than current materials.

According to Susan Eustis, leader of the team that prepared the research, “Wind turbine bearings are mission-critical devices. They function inside MW-class turbines, endure dynamic and unpredictable stresses to support movement inside the system. Stress is causing untimely, expensive repairs for many wind turbines. Reliability of mainshaft bearings is an issue. Recent turbine failures have been dramatic, investigation has centered on SRBs: Self-aligning Roller Bearings. Solutions for retrofitting single self-aligning roller bearings (SRBs) in a three-point mount arrangement, including wear-resistant SRBs and a pre-loaded TRB design are in play.”

The global wind turbine bearing market is expected to be \$9.6 billion in 2024 driven by the availability and cost effectiveness of new, stronger, more efficient bearings. Next generation bearings permit wind turbines to produce more power, operate in a less expensive manner, and last longer before bearing replacement. The adoption of widespread use of new bearings makes the turbine devices an optimized choice for renewable energy generation.



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WinterGreen Research is an independent research organization funded by the sale of market research studies all over the world and by the implementation of ROI models that are used to calculate the total cost of ownership of equipment, services, and software. The company has 35 distributors worldwide, including Global Information Info Shop, Market Research.com, Research and Markets, electronics.ca, and Thompson Financial. WinterGreen Research is positioned to help customers facing challenges that define the modern enterprises.

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WinterGreen Research supports various market segment programs; provides trusted technical services to the marketing departments. It carries out accurate market share and forecast analysis services for a range of commercial and government customers globally. These are all vital market research support solutions requiring trust and integrity.

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