Maglev wind turbine reviews

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Renewable energy produced from the wind has garnered much attention and support in recent years but is often criticized for its low output and lack of reliability. But now a super power wind turbine has come along that may be just what the renewable energy industry needs. The MagLev wind turbine, which was first unveiled at the Wind Power Asia exhibition in Beijing, is expected take wind power technology to the next level with magnetic levitation.

Magnetic levitation is an extremely efficient system for wind energy. Here"s how it works: the vertically oriented blades of the wind turbine are suspended in the air above the base of the machine, replacing the need for ball bearings. The turbine uses "full-permanent" magnets, not electromagnets -- therefore, it does not require electricty to run. The full-permanent magnet system employs neodymium ("rare earth") magnets and there is no energy loss through friction. This also helps reduce maintenance costs and increases the lifespan of the generator.

Maglev wind turbines have several advantages over conventional wind turbines. For instance, they"re able to use winds with starting speeds as low as 1.5 meters per second (m/s). Also, they could operate in winds exceeding 40 m/s. Currently, the largest conventional wind turbines in the world produce only five megawatts of power. However, one large maglev wind turbine could generate one gigawatt of clean power, enough to supply energy to 750,000 homes. It would also increase generation capacity by 20% over conventional wind turbines and decrease operational costs by 50%. If that isn"t enough, the maglev wind turbines will be operational for about 500 years!

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Ijraset Journal For Research in Applied Science and Engineering Technology

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DOI Link: https://doi /10.22214/ijraset.2023.50688

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