The Neodymium Wind Turbine

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Generation of electricity through the Neodymium Wind Turbine In the early days, windmills were set up only in parts of Persia, Iraq and some historical contexts refer to England. These all, however, had a very simple understanding of how wind power could be harnessed. Through the years, wind turbines and their uses have evolved and they have gone through changes that were vital to suit various purposes, be it the simple grinding of wheat to the generation of electricity. Wind turbines operate on a simple principle. The force of the wind turns two or three propeller-like blades around a rotor. The rotor is connected to the main shaft, which spins a generator to create electricity. The Neodymium Wind Turbine however is a whole new take on the very basic concept of a wind turbine. It is a VAWT (Vertical Axis Wind Turbine) which uses the power of the Neodymium Rare Earth Magnets for levitation while also using electromagnetic induction to generate electricity. The Neodymium Wind Turbine, unlike the simple wind turbine, is highly efficient and a promising prospect. The aims of this project are to produce clean, cheap electricity in an eco-friendly way while utilizing less space, man-power and maintenance costs. Not only this, but its futuristic design will also add to the aesthetic pleasure of its establishments. If commercialized, it will be a key source of renewable energy and will replace conventional wind turbines in about 50 years.

Awards Won: