

MAGLEV WIND TURBINE

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MagLev Technology

Magnetic levitation, maglev, or magnetic suspension is a method by which an object is suspended with no support other than magnetic fields. Magnetic pressure is used to counteract the effects of the gravitational and any other accelerations.

Earnshaw's theorem proves that using only static ferromagnetism it is impossible to stably levitate against gravity, but servomechanisms, the use of diamagnetic materials, superconduction, or systems involving eddy currents permit this to occur.

In some cases the lifting force is provided by magnetic levitation, but there is a mechanical support bearing little load that provides stability. This is termed pseudo-levitation.

Magnetic levitation is used for maglev trains, magnetic bearings and for product display purposes.

Background.

Wind power is a proven means of generating electricity. However, today's wind mill type generators are highly inefficient, expensive, high maintenance, hazardous to wildlife and take up too much land. The design of the wind mill has evolved into the 21st century. However, the science is as archaic as their 16th century Dutch counterparts. If it were not for government subsidies and tax credits of all types, it would take a half century to turn a real profit. The solution to the equation is the total transfer of kinetic energy produced by the wind without friction. All horizontal axis wind mills use less than 1% of the available wind energy. Picture a maritime model as an example: sailing vessels would never leave the wharf if the rigging were replaced with a large wind mills secured to the deck. Initially, the wind must be captured not deflected to produce maximum power.

Magnetic Levitation or Maglev is the most efficient means of transferring kinetic energy from wind power to generate electricity. The wind turbine floats on a magnetic cushion with the aid of a linear synchronous motor (LSM). This technology eliminates all friction and delivers maximum wind energy directly to the power generators. Since the Maglev wind turbine blades capture all of the wind, it is possible to generate electricity for less than one cent per kilowatt hour.

Maglev for transportation was invented in 1934 by Hermann Kemper. He was awarded DRP 643316. Today, Maglev trains operate in Germany, China and Japan. Maglev trains currently hold many land speed records and are most noted for energy efficiency, on time performance and low maintenance. The Maglev platform is highly versatile. The Chinese have already begun to integrate magnetic bearings into their wind power technology. The reverse of the turbine blades are also designed to incorporate an O-LED advertising platform.

Key Asset

The Maglev Wind Turbine for commercial energy production was invented by Ed Mazur of MAGLEV WIND TURBINE TECHNOLOGIES in 2004. It is designed to generate electricity from wind power with a new standard of efficiency.

Market Size It is currently estimated that the global electrical power generation market is a multi-trillion dollar industry. Maglev Wind Turbines will make wind power highly profitable.

Scientific Consensus

The earth is currently in a warming period in which the weather conditions are becoming more volatile. Wind velocity is expected to increase significantly over the next 20 years.

Science Centers

Science and educational centers will be established at designated Maglev Wind Turbine Facilities to promote the benefits of clean electrical energy.

Floating on Air

Once the wind is captured, it then must be efficiently converted into power. Conventional wind mills continue to rely on obsolete mechanical components such as roller bearings, transmissions and generators which absorb much of the potential power because of friction. These high maintenance systems are expensive and highly sensitive to extreme temperature fluctuation.

MAGLEV systems are also used in sophisticated ship elevators, amusement park rides such as the people mover in Disney World, aircraft carrier catapults and a variety of other conveyance applications. The MAGLEV platform is highly versatile.

Chinese Ingenuity

MAGNETIC bearings have already been introduced into conventional wind mills in China. THE SHANGHAI DAILY reports a Technological Breakthrough in friction management with the next generation of wind mills. Replacing roller bearings with magnetic bearings, the Chinese claim to have increased the efficiency of their wind mills by 20%.

Upgrade with MLWTH Technology

Wind Farmers have been considering various alternatives of operating existing wind farms and the construction of new wind farms because of the lack of profitability. From resulting meetings and in depth discussions, resulting wind farm research and analysis have led to the unanimous conclusion by existing wind farmers to approve upgrading existing wind farms. MAGLEV WIND TURBINE HOLDINGS (MLWTH) intends to replace all existing obsolete wind mills with the new industry standard MAGLEV wind turbines. The new MAGLEV power plants will produce approximately 1GWh each. The electricity generated will reduce local conventional power demand. The excess power will be sold off to local utilities.

The environmental and community impact will be considerably less than any conventional wind farm based on the fact that MAGLEV wind turbines will reclaim great sections of land from obsolete wind farms. This greatly improved wind project successfully demonstrates that renewable energy plants can be sited responsibly and sized appropriately within the environment they are meant to protect. This project reaffirms our commitment to renewable energy, reduces our dependency on fossil fueled energy and reduces energy costs while balancing the environmental and community impact.

Scaling down the land area for projects only makes economic sense because MAGLEV wind turbines utilize existing infrastructure at the wind farm sites. New sites would require only one MAGLEV wind turbine in order to justify the increased infrastructure costs. MLWTH further believes that installing only one new unit minimizes the impact to the environment while still providing a significant amount of renewable energy to its customers.