WindMax is pleased to announce it's low cost lineup of WindMax Hybrid Home Wind Turbine Generators

WindMax Wind Turbines feature 15-year maintenance free life span, high reliability and consistent performance, WindMax Wind turbines are made professionally in ISO certified factory, WindMax H5 & H8 wind turbines are CE certified since 2005.

May 11, 2009 - *PRLog* -- Every wind turbine is made differently. WindMax Wind Turbines feature 15-year maintenance free life span, high reliability and consistent performance, WindMax Wind turbines are made professionally in ISO certified factory, WindMax H5 & H8 wind turbines are CE certified since 2005, their working wind speed range is from 5 mph to 134 mph. the following features make WindMax wind turbines produce more energy without maintenance headaches:

Blades are patented for twisted aerodynamic design and high efficiency. Blades are made with the latest advanced thermoplastic engineering and precision injection molding technology for highest strength, consistency of quality, performance and durability.

WindMax wind turbines are fully automatic with blade aerodynamic braking and controller electromagnetic braking. No need to turn it off or take it down at high wind, survival wind speed is up to 134 mph.

Strong Neodymium magnet PMA, the unique winding and multi-pole design reduces the start-up torque of the alternator that assures it can generate more electricity at low wind speed than other systems.

User friendly: Pole connector included for easy installation, no welding needed to connect wind generator to pole.

Neighborhood friendly: Amazingly quiet WindMax turbines have very low noise level. Pole adjacent noise level is less than 55dBA, conforming to IEC 61400-11 wind turbine standard for Noise Measurement.

WindMax High output wind turbines include 600w, 900w, 1200w, 2500w and 3500w. 1200w and 3500w are our low wind models with 5 blades.

H series wind turbine is designed to provide higher actual energy output in variable wind conditions and high wind conditions, It has 15-year maintenance-free design, all major parts are built with stainless steel for long term reliability and patented blades with efficient twisted aerodynamic design are made with Nylon-fiber materials which last much longer than fiber glass blades.
This is the perfect choice if you want to avoid the following problems facing most conventional furling based wind turbines:

1. Low survival wind speed, old style furling based wind turbine can't generate electricity under high wind conditions and needs to be taken down during high wind. Capability of electricity generation from low wind to high wind condition is the advantage of WindMax H series over old style furling based wind turbines.

2. Low electricity output due to low efficiency blade design, old style blades can't capture the wind energy efficiently, therefore can't convert the wind power to electricity efficiently even though the blades are longer. the key to efficient wind turbine is to have EFFICIENT BLADES MATCHING WITH GENERATOR LOAD.

3. Poor reliability: The furling components, blades and slip ring wear out quickly and have short service life due to low quality materials used and problematic design.

4. High maintenance cost: most conventional wind turbines are not built for long life span like WindMax H series, parts of old style wind turbines will need maintenance every season. The longer you own them, the higher the ownership cost.

Nylon-Fiber Glass High Efficiency blades is aerodynamically designed to regulate themselves, slowing automatically in high winds.
H Series Wind Turbine History

* The H series wind turbine was made available commercially on the worldwide market in 2004.
* Wind turbine patent was awarded in March of 2004.
* CE certification was awarded in July of 2005.
* ISO certification was awarded in March of 2006.
* More than 10,000 units have been sold worldwide.
* Documents available upon request.

WINDMAX home wind turbine system includes generator with slip ring, hub, 3 blades, nose cone, tail, wire connector, Bolt-on Pole Collar, wind/solar hybrid controller and screws/bolts/washers/nuts needed to assemble the wind generator.

The new WindMax Hybrid Wind & Solar Power Generators are also available as stand alone wind turbines in the WINDMAX-H05 500W Max Power Wind Generators w/controller and Electromagnetic Speed Control, Blade Over-speed Braking with Hybrid Wind/Solar Output Capability, the WINDMAX-H08 775W Wind Generators w/controller, with Electromagnetic Speed Control, Blade Over-speed Braking with Hybrid Wind/Solar Output Capability, and the WINDMAX-H20 Wind Generators with Electromagnetic Speed Control, Blade Over-speed Braking with Hybrid Wind/Solar Output Capability.

WindMax H series components built with advanced technologies
Generator:
Generator: The generator is built using high-performance rare earth neodymium permanent magnets, so the alternator is compact and light weight with a high power generating efficiency. The unique winding and multi pole design reduces the start-up torque of the alternator that assures the WINDMAX-H series can generate electricity at low wind speed. The generator features class B insulation, IP55 class protection, and is designed with a sufficient cushion of overload to ensure overall wind turbine reliability.
Generator housing is made with precision cast technology from high strength aluminum to assure a high quality finish. It is designed for various working conditions such as severe climate, sand and salt corrosive environments and marine usage. Aluminum die cast alloys can withstand the highest operating temperatures of all die cast alloys. Ideal for demanding environments, it offers high strength and rigidity along with good corrosion resistance and heat dissipation.

Rotor blades:
Patented Blade design vs. traditional hand made fiber glass blades:
Our Blades are made with the latest thermoplastic engineering and injection mold technologies. The blades are made of mixed reinforced fiber glass and nylon materials. These manufacturing technologies ensure the highest strength, flexibility of blades and consistency of the blade shapes. The blades will automatically slow the turbine in strong winds and reduce noise.
A set of 3 Blades designed to capture as much wind energy as possible. Patented airfoil blade design makes the system run much more efficiently and the rotor blades are made with the latest advanced thermoplastic engineering and precision injection molding technology.

The blades have exceptional consistency and aerodynamic outline with a mass distribution that ensures the rotors operate with nearly no noise and minimal vibration.
The blades feature lower start-up and cut-in speed and begin producing power at 2 m/s or 4.5 mph.

Solar/Wind Hybrid Charge Controller:

This multifunctional Hybrid controller combines the functions of AC to DC rectifier, load control and dump load control for wind and/or solar systems. It eliminates the need for separate rectifier, solar charge controller and wind turbine controller. It is the most cost effective solution for renewable energy systems.

Main Features
High Reliability: Extra large heat sink and efficient ventilation design ensure reliable and efficient operation.
Great for hybrid wind/solar system, hybrid controller can support battery charging from simultaneous wind generator load and solar load combined up to 550w.
Charge Control: Constant voltage series PWM regulation to provide highly efficient battery charging increase battery capacity and life.
Built in "ON/OFF Switch" to connect the wind turbine or solar panels to the controller.
Load control and diversion control: The controller has over-charge protection, protection, short-circuit protection, pole-confusion protection and automatic dump-load function. It is reliable with a highly efficient, long service life.
Uses advanced technology and automated production to provide exciting new features at a competitive cost.

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Windmax Green Energy, a Plano, Texas-based premier wind turbine manufacturer, wind-solar energy solution provider and distributor of affordable, sustainable 200w to 20kw wind turbine systems and solar energy systems, serving customers throughout the United States and the world. We manufacture and distribute reliable, high efficiency, small to mid scale wind generators, wind turbine systems, wind turbine components and solar systems. We always bring the superior performance, durable and easy to operate wind turbine systems to small wind turbine market at the lowest cost. We are committed to offering the sustainable wind and solar energy products with outstanding performance, long term durability and lowest ownership cost.

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