EcoVert 250 Wind Turbine

WHY WINDPOWER?

The most efficient and cost effective renewable energy technology available: FACILITY CLASS WIND!

Wind power is the fastest growing segment of renewable energy production. In fact, wind energy took over in 2007 as the leading source of new electricity generating capacity in the US. That data includes coal, natural gas, and all other non-renewables.

The reason is simple: it makes economic sense.

Most people believe that the only place wind turbines work is across the Midwest where the winds are strong all the time. While this is where most wholesale utility-scale wind capacity is installed, many technology advancements have expanded the capabilities of modern wind turbines—making them the best power production choice for a variety of climates.

WHY ECOVERT?

- **Numerous studies conclude that vertical turbines perform better in turbulent urban and sub-urban environments**
- **Variable-speed combined with our APAA™ technology provides the most output over the widest range of wind conditions**
- **Full IGBT reactive inverter output provides the cleanest grid connection solution**
- **No gearbox means higher efficiency, lower maintenance, and less chance of an expensive failure**

BENEFITS

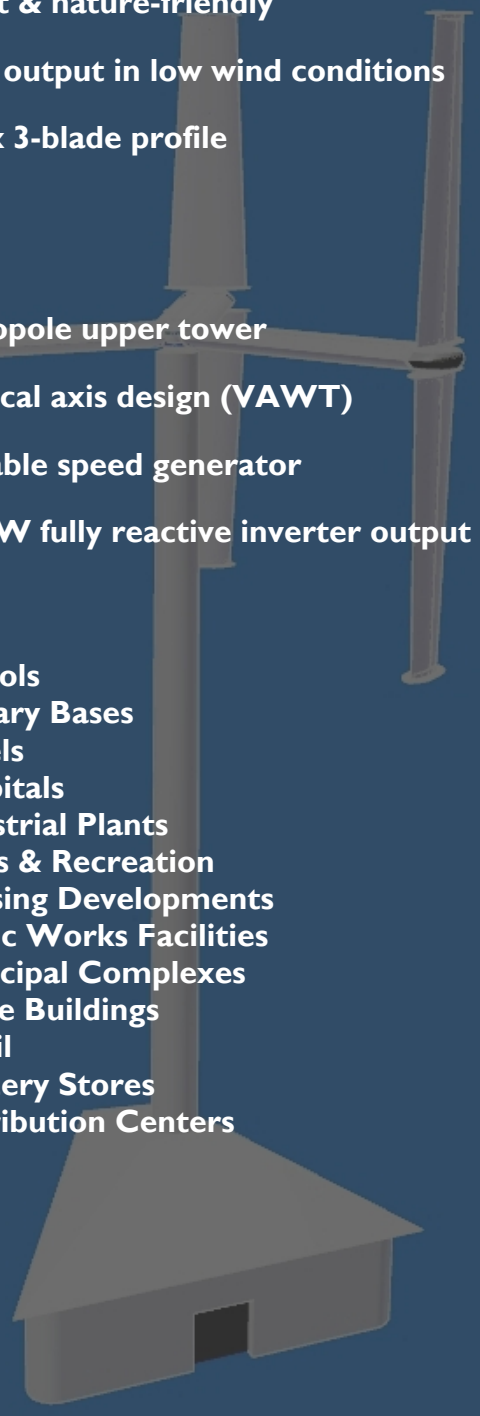
- Quiet & nature-friendly
- High output in low wind conditions
- Sleek 3-blade profile

FEATURES

- Monopole upper tower
- Vertical axis design (VAWT)
- Variable speed generator
- 250kW fully reactive inverter output

APPLICATIONS

- Schools
- Military Bases
- Hotels
- Hospitals
- Industrial Plants
- Parks & Recreation
- Housing Developments
- Public Works Facilities
- Municipal Complexes
- Office Buildings
- Retail
- Grocery Stores
- Distribution Centers



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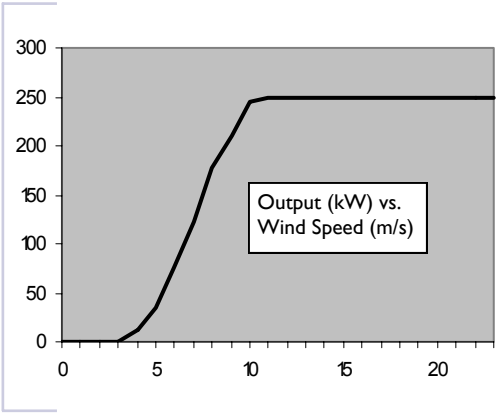
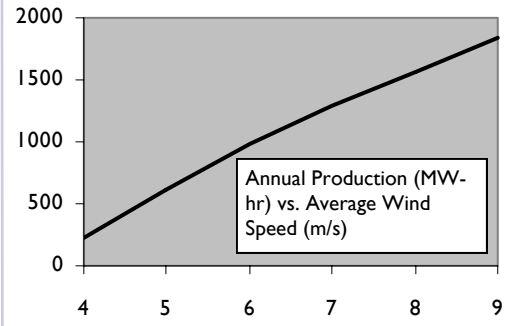
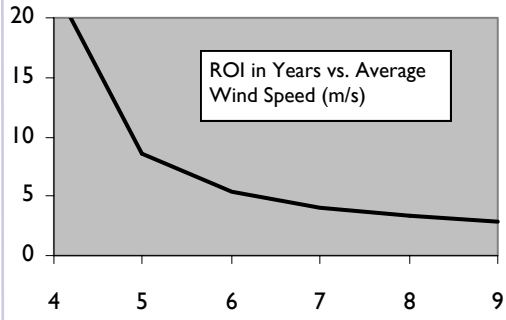
POWER CURVE



ECONOMICS





ROI calculation assumes net-metering environment offsetting 10¢/kW-hr electricity cost and federal renewable energy stimulus incentives

PRODUCT SUMMARY

TECHNOLOGY	BENEFIT
Aesthetic 3-blade Vertical-Axis Design (VAWT)	Easier to install, lighter weight/lower center of gravity, quieter, more nature-friendly, and less affected by turbulence than a traditional horizontal design
APAA™ Blade Control	Better low-speed output performance, more consistent output over wind speed range, and 60% less tower load in storm winds than traditional turbine designs
Variable Speed, Permanent Magnet Generator based on our EcoTork ™ Platform	More efficient over a broader speed range than a traditional induction type generator design
Gearless drive train	Longer service life, lower risk of major failure
Full Reactive Inverter Output (UL-1741)	Cleanest grid-tie power: much less likely to cause fault than a traditional turbine
Monopole Tower/Tripod base	More aesthetic & nature-friendly; simpler foundation provides more stability
Split-blade design allows all components to be shorter than 21m	No special transportation requirements, easy assembly using local contractors

SPECIFICATIONS*

SPECIFICATION	VALUE	UNIT
Output Capacity	250	kW
Swept Blade Area	1000	m^2
Tip Speed Ratio (Max)	2	Ratio
Cut-in Speed	4	m/s
Rated Speed	10	m/s
Cut-out Speed	23	m/s
Survival Speed Per IEC61400-1	61 ten min/85 one min avg.	m/s
Weight: Rotor	6500	kg
Weight: Generator	8000	kg
Weight: Tower (height dependent)	11000	kg
Hub Height	45-60	m
Pitch Control	Motorized, According to APAA	
Yaw Control	Motorized	

*Specifications are preliminary, based on analytical models, and subject to change

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