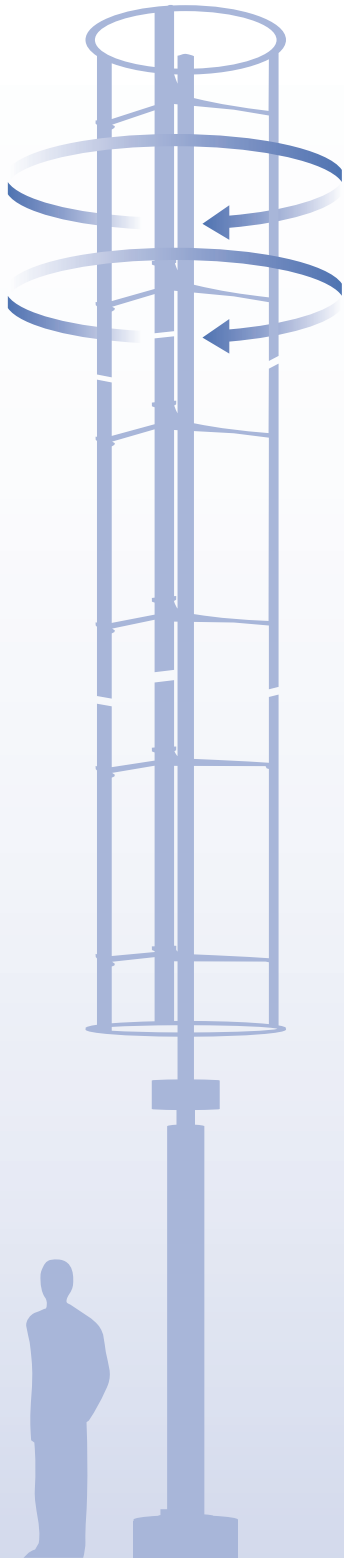




Standard 1.2 kW

Clean. Simple. Smart.

FREQUENTLY ASKED QUESTIONS



What is the difference between Energy and Power?

At wind speeds greater than 8 mph, the Windspire will begin producing power, which is measured in Watts (W) or kilowatts (kW). Power output jumps up and down as quickly as the wind changes speed, so the industry measures output over time in kilowatt-hours (kWh) which is how many watts of power are consumed over a full hour. Your electric company charges you for energy usage based on a rate/kWh. Over the course of a year, the 1.2kW Windspire will produce approximately 2000 kWh in 12 mph average winds to help offset the energy you require from the electric company. This is approximately one-quarter of the energy usage of an average home.

Are There Tax Credits Available?

The Federal Government provides a 30 percent tax credit for the total cost of the unit, including installation. Many state and local municipalities also offer rebates, as do local power companies.

Is it Safe for Birds?

The Windspire® rotates at a lower speed than most wind turbines and is more visible to flying birds. So far, we have had no reports of collisions – and we have had one report of a nest built under an active unit.

Are There Specific Requirements for Potential Customers?

A Windspire® site requires land with unobstructed wind and adequate space for installation. The Windspire® also needs at least class two winds – ideally class three (an average of 12 mph) – and a tie to the power grid.

Is the Windspire a Grid-Tie or Off-Grid Product?

The currently available Windspire® is grid-tie, which requires the unit to be tied into the local utility grid.

Can I sell electricity back to the grid?

Some utilities offer net metering agreements that allow credit for, or in a few places the sale of excess power back to the grid using feed-in tariffs.

Is the Windspire® Independently Tested and Certified?

The Windspire® is independently tested at Windward Engineering in Spanish Forks, Utah. This testing allows customers to know what level of power production to expect from specific wind ranges. The Windspire® Inverter received ETL certification as of March 2008 to U.S. and Canadian standards.

What Is the Maintenance?

The Windspire® requires no scheduled maintenance, with moving parts designed for a 20+ year life and ball bearings that are greased for life. Durable construction enables it to produce power for 20+ years. A dual-layer paint coat, rust proof spray, and zinc plating are applied for weather protection.



Clean. Simple. Smart.

Standard 1.2 kW

The Windspire wind turbine is an aesthetically designed vertical axis wind turbine that operates quietly while generating electricity for immediate use in your home or business.

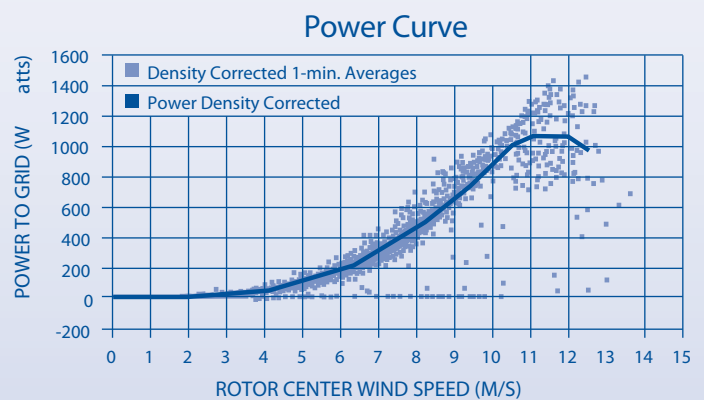
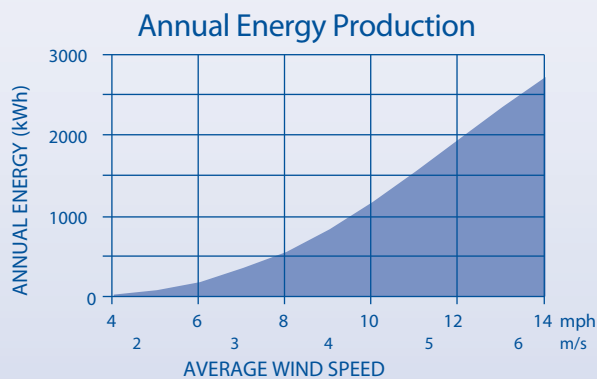
The Windspire is also the lowest priced alternative energy appliance within the one kilowatt range on the market. And it's made in the USA.

Windspire invites everyone to explore the potential of clean energy from the natural power of the wind.

WINDSPIRE® SPECIFICATIONS - STANDARD 1.2 KW UNIT

Annual Energy Production (AEP)	2000 kWh ¹	General
Instantaneous Power Rating (IPR)	1.2 kW (1200 watts) ²	
Standard Unit Height	30 ft 9.1 m (pole extension options available)	
Total Weight	624 lb 283 kg	
Unit color	Soft Silver	
Sound output	6 dBA above ambient (15 mph wind, 6 ft from base)	Rotor
Warranty	5 Year Limited	
Rotor Type	Vertical Axis - Low Speed Giromill	
Rotor Height / Diameter	20 ft 6.1 m / 4 ft 1.2 m	
Swept Area	80 sq ft 7.43 sq m	
Max Rotor Speed	400 RPM ³	Electronics
Tip Speed Ratio	2.3	
Speed Control	Redundant Electronic	
Wind Tracking	Instantaneous	
Generator	High Efficiency Brushless Permanent Magnet	
Inverter	Inverter Custom Integrated Grid Tie 120 VAC 60 Hz	Ratings
Inverter Certification	Meets IEEE 1547.1; UL 1741; CSA C22.2 #107	
Performance Monitor	Integrated Wireless Zigbee Modem	
Cut-in Wind Speed	8 mph 3.6 m/s	
AEP Average Wind Speed	12 mph 5.4 m/s	
IPR Rated Wind Speed	25 mph 11.2 m/s	Construction
Survival Wind Speed	105 mph 47 m/s	
Foundation	Poured Concrete	
Foundation Size	2 ft diameter by 6 ft base ⁴	
Rotor Material	Recycled Aircraft Grade Extruded Aluminum	
Monopole/Structure Material	Recycled High Grade Steel	Construction
Paint	2 Coats, Corrosion-Resistant Industrial Grade Paint	
Coatings	Rust Veto & Zinc Olive Drab	

Notes: 1: AEP is based on the power curve and standard assumptions including a Rayleigh wind distribution and sea level air density. 2, 3: Performance is based on initial field test data. Final testing is currently underway. 4: Foundation size may vary for non-standard soil conditions or non-standard heights.



MADE IN USA



5450 Louie Lane, Reno NV 89511 · 775.857.4888 · www.mariahpower.com