

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.

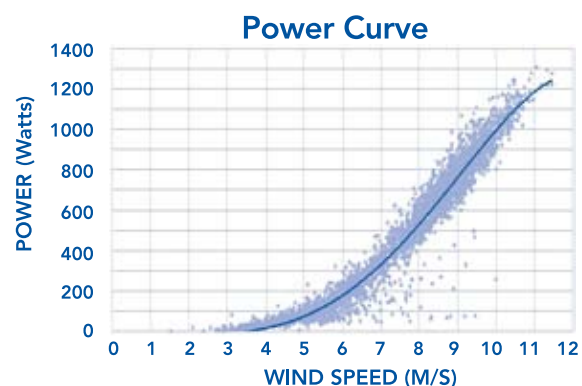
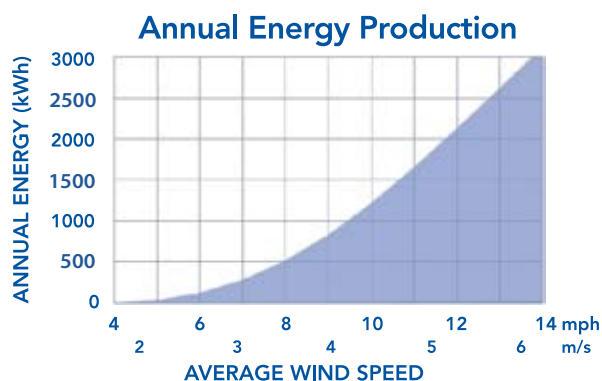
The Windspire® is also the lowest priced alternative energy appliance within the one kilowatt range on the market. And it's made in the USA.

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

## Windspire® Specifications

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



Data from Windward Test Site, Spanish Fork, Utah