

Windspire

VERTICAL WIND TURBINE



bluesunrenew.com

Only 30 feet tall and silent
Scalable Solutions
Sculptural monopole design
Easy tip-up installation
All electronics integrated
Grid ready AC power
Bird and people friendly

Coming Soon:

DC Windspire for Off-Grid
Wind/Solar street lamps
Roof-mounted for
commercial applications

Windspire Incentives:

Unit: \$6,500 plus installation
Federal Tax Credit: 30%
Other incentives by state
(NC total 65% tax credit)



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Windspire is a new approach to wind power. Smaller, silent and affordable, the 30 foot high Windspire installs easily to capture wind energy in more places - at homes and businesses, as well as for larger energy projects.

Working with wind from all directions, Windspires can also be grouped together to give you the power you need, without tall towers and within zoning guidelines. Windspire's flexibility provides more options so you can take control faster of your rising utility costs.

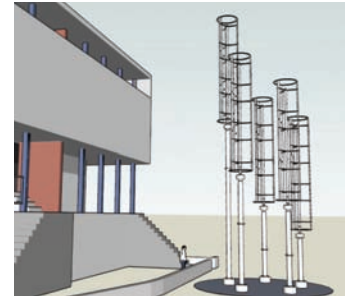
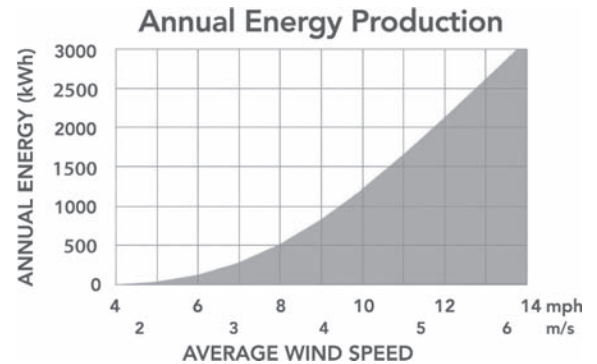
APPROACHABLE DESIGN CLEAN POWER

From a sculptural wind garden to a micro-wind farm, Windspire offers tested performance that is competitive to traditional wind turbines with lower installation costs and minimal maintenance. Whatever your energy goals, it's easier to achieve with Windspire.

Windspire® Specifications

Annual Energy Production (AEP)	2000 kWh ¹	General
Instantaneous Power Rating (IPR)	1.2 kW (1200 watts) ² / Peak 1.6 kW @30 mph	
Standard Unit Height	30 ft 9.1 m (pole extension options available)	
Total Weight	624 lb 283 kg	
Unit color	Soft Silver	Rotor
Sound output	6 dBA above ambient (15 mph wind, 6 ft from base)	
Warranty	5 Year Limited	
Rotor Type	Vertical Axis - Low Speed Giromill	
Rotor Height / Diameter	20 ft 6.1 m / 4 ft 1.2 m	Electronics
Swept Area	80 sq ft 7.43 sq m	
Max Rotor Speed	400 RPM ³	
Tip Speed Ratio	2.3	
Speed Control	Redundant Electronic	Wind Ratings
Wind Tracking	Instantaneous	
Generator	High Efficiency Brushless Permanent Magnet	
Inverter	Inverter Custom Integrated Grid Tie 120 VAC 60 Hz	
Inverter Certification	Meets IEEE 1547.1; UL 1741	Construction
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	
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	
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.



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