

WINDTERRA

Building tomorrow's energy future, today

Windterra Systems Inc.
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Omni-directional

VAWTs (Vertical Axis Wind Turbines) accept wind from any direction, as opposed to HAWTs which have to constantly rotate so that they face the wind.

Focus on output not rated power

Our blade design is optimized for performance at lower wind speeds. The result: higher annual output – more kilowatt hours.

All in One System

We provide an all inclusive package: turbine, controller/inverter, and mounting system that is ready to use in four to five hours.

Certified Grid-Tied Inverter

Our UL/CSA certified inverter is ready to be connected to a bi-directional utility meter.

Roof Mount

Eliminating the need for a tower simplifies installation and significantly reduces your cost.

Patented Self-Braking System

The Eco 1200 is designed to rotate at around 225 rpm versus 900 rpm for competitors. Large rpms on other turbines result in vibration and noise.

Inverter Specifications

Continuous Rated Output Power 1200 W

Continuous Output Voltage 120 VAC

Dynamic Loading: Peak Power Tracking Algorithm

Distortion less than 5% (2.5% typical)

Efficiency (Max) 94% (Min) 85%

Temperature Operating Range 0-60°C; 32-140° F

Altitude Operating 4500m; 15,000ft



Windterra Eco 1200

Type	VAWT
Rated Capacity	1 kW, peak 1.2 kW
Rated Wind speed	11 m/s; 24.2 mph
Rated Annual Output	5100 kWh
Est Ann. Output at 5 m/s	1642 kWh
Cut-in wind speed	3 m/s; 6.6 mph
Dimensions	2.25m X 2.66m; 7.4 ft X 8.7 ft
Swept Area	5.99 m ²
Survival Wind Speed	53 m/s; 118 mph
Rated Rotation Speed	max 270
Mounting system	Patented roof mount system
Weight-Turbine	308 lbs; 140 kg
Weight-Mounting	112 lbs; 45 kg
Direction of Rotation	omni-directional
Blade composition	Fiberglass
Inverter location	At control panel (indoors)
Voltage	120 Volts AC - grid tied
Braking System	Passive air brakes / manual shut off

Be Part of the Solution

With the development of it's VAWT, Windterra is poised to change the face of green energy at the consumer level by providing small businesses and homeowners with an affordable, efficient, and hassle-free small-wind power generation system. Over the life of the turbine, the ECO1200 will reduce your carbon footprint by over 22 tons.

Ave. Wind Speed (MPH) ***	Power Output (W)	Output (KWH/Day)	Output (KWH/Mo)	Output (KWH/Yr)	Annual Savings @ \$0.10 / kWh	Annual Savings @ \$0.20 / kWh	Annual Savings @ \$0.30 / kWh	Annual Savings @ \$0.40 / kWh
8	74	1.8	54	646	\$65	\$129	\$194	\$258
10	144	3.5	105	1264	\$126	\$253	\$379	\$506
12	225	5.4	164	1969	\$197	\$394	\$591	\$788
14	310	7.4	226	2712	\$271	\$542	\$814	\$1,085
16	393	9.4	287	3441	\$344	\$688	\$1,032	\$1,376
18	469	11.2	342	4106	\$411	\$821	\$1,232	\$1,642
20	532	12.8	388	4657	\$466	\$931	\$1,397	\$1,863
22	576	13.8	420	5043	\$504	\$1,009	\$1,513	\$2,017
24	583	14.0	426	5107	\$511	\$1,021	\$1,532	\$2,043

***Assumes that the wind speed varies according to a Rayleigh distribution

