

WINDTERRA

Building tomorrow's energy future, *today*

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 five to six hours.

Certified Grid-Tied Inverter

Our UL/CSA certified inverter is ready to be connected to a bi-directional utility meter (required in most cases).

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 190 rpm versus 900 rpm for other turbines. Large rpms result in vibration and noise.

Inverter Specifications

Continuous Rated Output Power 1200 W

Continuous Output Voltage 120 VAC

Dynamic Loading: Peak Power Tracking Algorithm

Total Harmonic Distortion less than 3% (2.5% typical)

Efficiency (Max) 87%

Temperature Operating Range 0–40°C; 32–140°F

Altitude Operating 4500m; 15,000ft

UL 1741 (2005) and CSA 22.2 107.1–01 (R2006)

WINDTERRA ECO 1200

Type	VAWT
Rated Capacity	1 kW, 1.2 kW peak
Rated Wind speed	12 m/s; 26.8 mph
Est. Ann. Output at 12 mph	1633 kWh
Cut - in wind speed	4 m/s; 9 mph
Dimensions - rotor	2.25 x 2.66 m; 7.4 x 8.75 ft
Dimensions - overall	2.5 x 2.66 m; 8.2 ft x 8.75 ft
Swept Area	5.99 m ² ; 64.5 ft ²
Annual Carbon Offset	1.1 ton; 2450 lbs
Survival Wind Speed	40 m/s; 90 mph
Rated Rotational Speed	190 rpm; 330 max
Mounting System	Adjustable Roof Mount
Weight - Turbine + Mtg Bracket	292 kg ; 644 lbs
Direction of Rotation	Clockwise
Blade composition	Fiberglass
Inverter location	At Breaker Panel (indoors)
Voltage	120 Volts AC - grid tied
Braking System	Passive air brakes / manual shut off

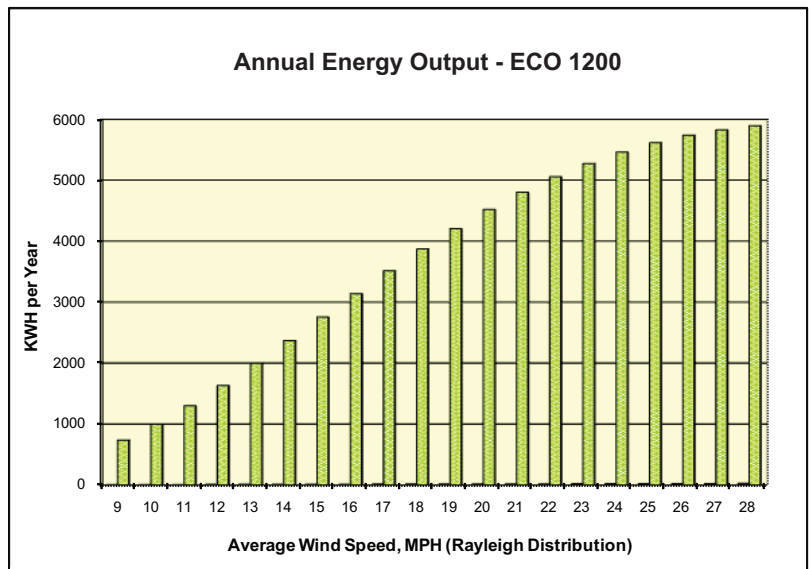
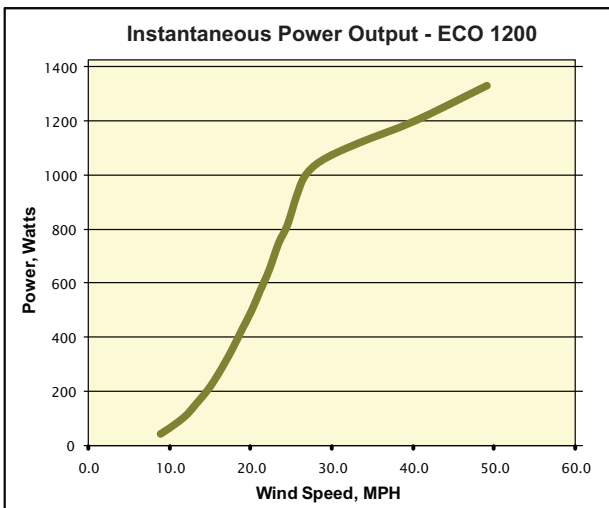


Be Part of the Solution

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 27 tons.

Average Wind Speed (MPH)***	Output (KWH/Day)	Output KWH/Month)	Output (KWH/Year)	Annual Savings @ \$0.10/KWH	Annual Savings @ \$0.20/KWH	Annual Savings @ \$0.30/KWH	Annual Savings @ \$0.40/KWH
10	2.7	83	997	\$100	\$199	\$299	\$399
12	4.5	136	1633	\$163	\$327	\$490	\$653
14	6.5	197	2368	\$237	\$474	\$710	\$947
16	8.6	261	3135	\$314	\$627	\$941	\$1,254
18	10.6	323	3870	\$387	\$774	\$1,161	\$1,548
20	12.4	377	4521	\$452	\$904	\$1,356	\$1,808
22	13.9	421	5056	\$506	\$1,011	\$1,517	\$2,022
24	15.0	455	5460	\$546	\$1,092	\$1,638	\$2,184

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



Instantaneous Wind Speed (m/s)	Instantaneous Wind Speed (MPH)	Instantaneous Power Output (W)
4	8.9	41
5	11.2	87
6	13.4	156
7	15.7	243
8	17.9	361
9	20.1	495
10	22.4	650
11	24.6	815
12	26.8	1000
13	29.1	1058
15	33.6	1120
18	40.3	1199
22	49.2	1330

