

Annual Power output from various mean wind speeds at hub height. These numbers are derived using a Weibull K factor #2 for inland sites. By finding your average wind speed on the US wind maps, at say, 30 meters above ground, you can estimate the annual production with the following turbines. One meter per second equals 2.24 miles per hour.

Turbine make

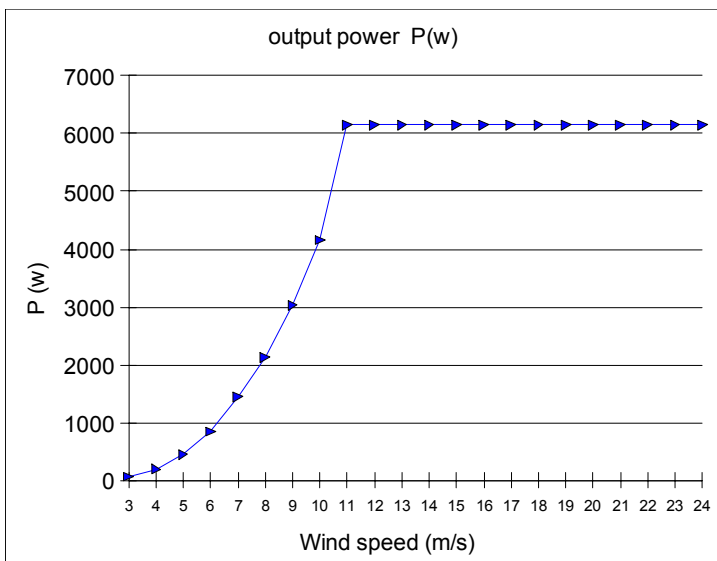
100kw blade sweep	Breeze 10 kw blade sweep	Breeze 20kw blade sweep	Breeze 5kw blade sweep
4 m/s 71,000kw	0	00	kw
5 m/s 103,000kw	0	00	kw
6 m/s 142,000kw	0	00	kw
7 m/s 190,000kw	0	00	00kw
8 m/s 247,000kw	0	00	00kw
9 m/s 314,000kw	0	00	00kw
10 m/s 392,000kw	0	00	00

Below is a power chart for our EBA 5-p a variable pitch 5kw turbine. Notice that there is NO shut down speed. Most ALL other turbines shut down around 18 to 20 m/s. The EBA5-p keeps on producing!!!! It is also much more efficient at the low-end wind speeds.

EcoBreeze EBA-5p

5kw pitch blade turbine

wind speed m/s	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
output power P(w)	70	200	450	850	1450	2130	3030	4160	6150	6150	6150	6150	6150	6150	6150	6150	6150	6150	6150	6150	6150	6150



EcoBreeze EBA-5p variable pitch turbine	
Wind rotor diameter (m)	5.2
Blade material and quantity	Fiber glass reinforced * 3
Rated power / max power (w)	5k/6k
Rated wind speed (m/s)	11
Rated rotate speed (rpm)	300
Working wind speed (m/s)	4-25
Startup wind speed (m/s)	2
Survived wind speed (m/s)	60
Working voltage (v)	DC120V/DC240V AC240
Battery voltage / capacity (v, ah)	120V/200Ah 240V/100Ah
Speed regulation method	Pitch controlled + electromagnet brake
Stop method	Manual brake
Generator style	Three phase, permanent magnet
Wind turbine weight (kg)	400
AAA Tower height / weight (m/kg)	8/450

Although we would like to say this is what you will get, we find that actual production is less. This is due to local conditions, and the fact that the lowest wind speed maps are at 30 meters. Turbines are usually 15 to 25 meters, so production will be less than the map and calculator will derive. To be on the safe side, take about 66% of the numbers for a more realistic assumption of what you will get in kilowatts per year.