

Wind Turbines Compared

Turbine	Rotor Swept Area (Sq. Ft.)	Rotor Diameter (Ft.)	Tower-Top Weight (Lbs.)	Certification	AWEA Rated		Estimated AEO (kWh) at:			Estimated AEO (kWh) at:				Source of AEO	Rpm at Rated Power	Governing System	Grid-Tie Only (GTO) or Battery-Based (BB)	Governing Wind Speed (mph)	Cost for Turbine & Controls	Warranty (Yrs.)
					Power @ 11 m/s (kW)	AEO @ 5 m/s (kWh)	8 mph	9 mph	10 mph	11 mph	12 mph	13 mph	14 mph							
					Bergey Excel 1 bergey.com	53	8.2	75	No	1.0 ¹	1,850 ¹	420	610							
Kestrel e300i www.kestrelwind.co.za	75	9.8	165	No	1.0	2,200	973	1,315	1,726	2,131	2,551	2,966	3,356	Estimated	650	Blade-pitching	GTO/BB	27	5,544 ³	5
Kingspan KW3 kingspanwind.com	122	12.5	420	No	2.5	4,700	1,704	2,438	3,494	4,417	5,627	6,614	7,842	Manufacturer	300	Blade-pitching	GTO/BB	27	21,000 ⁵	5
Kestrel e400nb www.kestrelwind.co.za	136	13.1	551	SWCC	2.5	3,930	890	1,895	2,817	3,739	4,789	5,841	7,034	Cert. En. Curve	500	Blade-pitching	GTO/BB	27	8,579	2
Sonkyo Windspot 3.5 usa.windspot.es	142	13.5	407	Intertek	3.2	4,824	1,040	2,455	3,635	4,790	5,975	7,393	8,672	Cert. En. Curve	250	Blade-pitching	GTO/ BB	27	9,500 ³	2
Evance R9000 evancewind.com	254	18.0	660	SWCC	4.7	9,160	3,467	5,039	6,856	8,811	10,785	12,809	14,791	Cert. En. Curve	200	Blade-pitching / active yaw	GTO/BB	27	23,295 ³	5
Kingspan KW6 kingspanwind.com	255	18.4	1,213	SWCC	5.2	8,950	2,400	4,950	7,200	9,050	10,825	13,050	15,025	Cert. En. Curve	340	Blade-pitching	GTO/BB	27	31,000 ⁶	5
Bergey Excel 6 bergey.com	325	20.2	772	SWCC	5.5	9,920	3,963	5,582	7,470	9,536	11,667	13,850	16,325	Windcad / Cert. En. Curve	400	Furling	GTO	31–45	21,995	5
Venterra VT10 venterawind.com	380	22.0	500	No	7.0	11,800 ¹	5,037	7,630	9,369	11,625	13,924	16,644	20,074	Manufacturer	250	Blade-pitching	GTO/BB	28	24,000	5
Bergey Excel 10 bergey.com	414	23.0	1,200	SWCC	8.9	13,800	4,924	7,124	9,850	13,026	16,499	20,248	24,712	Windcad / Cert. En. Curve	400	Furling	GTO	31–45	31,770	10
Bergey Excel-R bergey.com	414	23.0	1,200	No	7.5 ¹	13,800	4,549	6,723	9,292	12,114	15,008	17,922	21,125	Windcad	400	Furling	GTO	31–45	26,870	10
Eocycle 25 eocycle.com	1,347	41.3	4,960	Pending	23.0	37,229 ¹	11,230	18,992	25,625	34,160	44,471	53,775	64,700	Manufacturer	90	Stall / active yaw	GTO	56	99,750	2 (ext. avail.)
Gaia-Wind 133 gaia-wind.com	1,432	42.7	1,984	MCS	10.7	27,502	10,700	16,275	21,840	27,450	30,990	35,870	40,530	Cert. En. Curve	400	Auto shutdown	GTO	56	110,000	5
Endurance E-3120 endurancewindpower.com	3,120	63.0	8,800	SWCC Power Perf. ²	56.8	116,935	41,516	65,214	88,913	112,611	137,334	162,289	186,458	Cert. En. Curve	42	Stall control / air brakes	GTO	56	272,375	5
Northern Power 100-24 northernpower.com	4,654	77.0	17,600	TUV/ ITAC	83.5	170,000	na	104,900	130,750	159,600	185,550	238,700	254,875	Cert. En. Curve	57	Stall control	GTO	56	365,000 ⁴	2 (ext. avail.)

¹Reported by manufacturer. ²AWEA standards only cover turbines up to 2,153 sq. ft.; this turbine has SWCC Power Performance Certification instead.

³For battery-charging option. ⁴Includes the 30- or 37-meter monopole or the 48-meter lattice tower; sold with tower. ⁵Price includes 11 m tower. ⁶Price includes 15 m tower.