

15 foot Turbine

(height 15 ft, diameter 10 ft)

Turbine Output Specifications

Swept Area for 15 ft Turbine

13.935 m² 150 ft²



Wind Speed (mph)	Wind Speed (m/s)	Rotational Frequency (Hz(rps))	Power Available in Wind For Swept Area (Watts)	Estimated Power Output of Turbine for Swept Area (Watts)
17.9	8	0.84	4370.2	1101.3
20.1	9	0.94	6222.4	1568.0
22.4	10	1.04	8535.5	2150.9
24.6	11	1.15	11360.7	2862.9
26.8	12	1.25	14749.3	3716.8
29.1	13	1.36	18752.4	4725.6
31.3	14	1.46	23421.3	5902.2
33.6	15	1.57	28807.2	7259.4

How much energy can this Turbine produce?

Average Wind Speed

Energy Production in KWh

10 m/s or 22.4 mph
8 m/s or 17.9 mph

Per Day

Per Month

Per Year

51.6

1548.7

18842.3

26.4

792.9

9647.4