

5) Wind Power

This type of power can be used to power almost any generator or DC motor just by putting a propeller or fan on the shaft. Just remember to mount the motor in a weather proof enclosure. One simple method I have found is through the use of Electronics Cooling Fans. One particular fan that I used is a Nidec, Model # TA600DC-A31694-22, 6.75" x 5.90" x 1.5". The fan is rated at 48 volts at .040 amps. Driving the fan by wind power produces between 20 to 40 volts. at .20 to .30 amps in moderate wind.

I have had no problem generating well over 12 volts on any given, windy day. Below is a simple venturi mounting system that provides better wind acceleration and fan pressure. (By the way, the larger the venturi, the more acceleration and fan speed).