

Inventor Douglas Selsam has introduced a two-rotor, 7-ft-diameter wind generator that produces up to 1 kW. Selsam says the second rotor on his Superturbine ST 1.2 will exceed the output of other 7-ft-diameter turbines, even when his sits on a shorter tower, a distinct advantage in locales with height restrictions. "It's good practice to get a turbine as high as possible, but a tall tower may not be an option," says Selsam. "The extra rotor is more effective than doubling tower height in most locations and uses less material."

The design puts both rotors on the same shaft and then tilts it a bit so they both catch fresh wind. The result is power output equaling that of a 14-ft-diameter turbine, says Selsam. Unidirectional carbon-fiber blades operate quietly and efficiently at all speeds, he adds. Electrical power comes from a three-phase alternator using rare-earth supermagnets to produce 100 A at 12, 24, or 48 V. Side furling and a shock absorber lets the blades turn out of high wind for overspeed protection over 30 mph. Contact **Superturbine Inc.**, selsam.com



Inventor Doug Selsam's turbine produces power in 9-mph winds and puts out an average 1 kW at 25 mph (24-V nominal).