

wind energy for your world



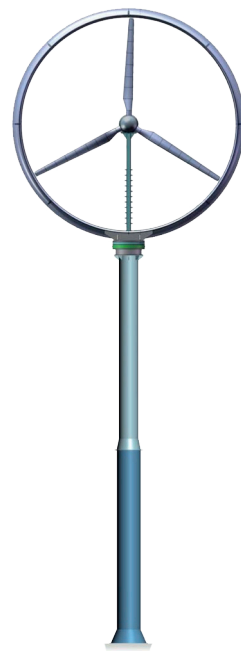


inspired thinking...

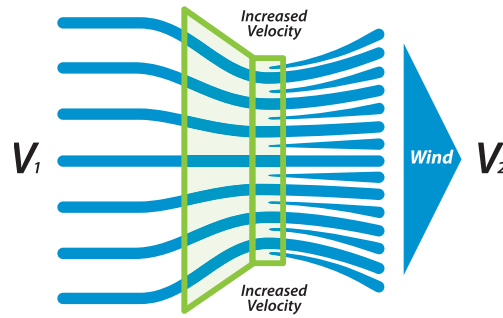
There's always been an incredible source of unlimited, free and clean power right above our heads. But for most of us, it was still out of reach...until now. At GreenEnergy Technologies, we are poised to deliver on our mission to provide clean and affordable energy to our customers. We've created a revolutionary technology called the WindSphere™. This rooftop or pole mounted design is so compact and versatile that now even heavily populated urban areas can take full advantage of one of our most plentiful renewable resources...the wind.

federal incentive in the united states

The American Recovery and Reinvestment Act of 2009 allows owners of small wind systems with 100 kilowatts (kW) of capacity and less to receive an uncapped investment tax credit for 30% of the total installed cost of the system.



how windsphere works



The WindSphere relies on its “wind tunnel” effect known in physics as the Bernoulli Principle. While the rest of the wind industry generates energy through the use of freestream wind, the WindSphere captures and amplifies the wind, which produces more kilowatt-hours (kWh). As wind comes into the WindSphere, it becomes condensed, creating increased velocity and in turn, more power.

the windsphere advantage for onsite generation

WindSphere can reduce your electric bills and protect you from electric rate increases. Its small footprint makes it ideal for urban rooftops, industrial plants, integration into new construction, exhaust capture and remote locations that were previously off limits using traditional wind turbines. It’s a great way for your company to manage your long-term energy strategy while reducing greenhouse gas emissions at the same time.



35kW pole mounted turbine

- Fully automated yaw system
- Variable pitch blade system
- Urban friendly design with smaller blade diameter
- Bird friendly
- Rotor blades designed for maximum lift, efficiency and structural integrity
- Aircraft style braking system
- Can be mounted on a standard turbine pole at any height desired

10kW rooftop mounted turbine

- Lightweight compact design that can be mounted on most commercial and industrial rooftops
- Fully automated yaw system
- Bird friendly
- Rotor blades designed for maximum lift, efficiency and structural integrity
- Aircraft style braking system

The following are examples of users that can benefit from the WindSphere industrial wind turbine:

- Commercial Office Buildings
- Condominiums
- Industrial Buildings
- College Campuses
- Big Box Retailers
- Ports
- Island Locations

technical data

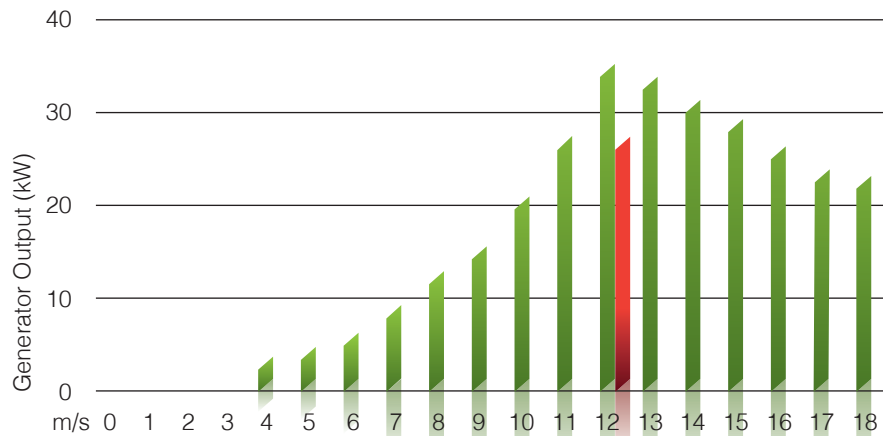
35kW operating data 34 ft. tall x 34 ft. wide

Rated Power	35 kW
Cut-in wind speed	7 mph (3.1 m/s)
Rated wind speed	26.8 mph (12 m/s)
Generator type	Permanent magnet direct drive
Rated voltage	480 volts
Rated current	73 amps
Rated frequency	60 Hz / 50 Hz
Braking system	Electromechanical fail-safe brake
Yaw system	Active Yaw Electromechanical with wind direction monitoring
Design	Multi-coated recycled steel frame
Noise	Noise reduced nacelle
Certifications	UL1741, IEEE 1547

rotor data

Number of rotor blades	3
Rotor diameter	32 ft (9.8 m)
Swept area	804 ft ² (74.7 m ²)
Rotor speed	108 rpm max
Blade material	Reinforced fiberglass
Noise	Rotor blades engineered to minimize noise

turbine output power



Red bar depicts output from a free-standing wind turbine with the same rotor diameter.

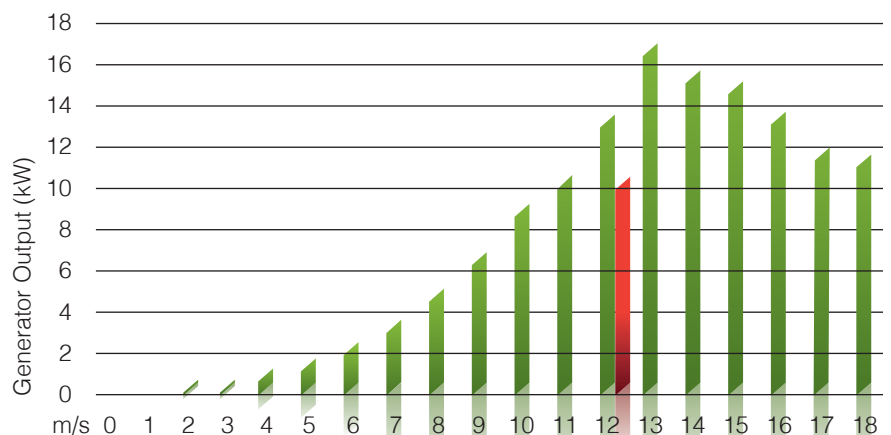
10kW operating data 18.5 ft. tall x 18.5 ft. wide

Rated Power	10 kW
Cut-in wind speed	7 mph (3.1 m/s)
Rated wind speed	26.8 mph (12 m/s)
Generator type	Permanent magnet direct drive
Rated voltage	480 volts
Rated current	20.83 amps
Rated frequency	60 Hz / 50 Hz
Braking system	Electromechanical fail-safe brake
Yaw system	Active Yaw Electromechanical with wind direction monitoring
Design	Multi-coated recycled steel frame
Noise	Noise reduced nacelle
Certifications	UL1741, IEEE 1547

rotor data

Number of rotor blades	3
Rotor diameter	17 ft (5.2 m)
Swept area	227 ft ² (21.1 m ²)
Rotor speed	135 rpm max
Blade material	Reinforced fiberglass
Noise	Rotor blades engineered to minimize noise

turbine output power



Red bar depicts output from a free-standing wind turbine with the same rotor diameter.



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