PowerWorks Wind Turbines

100 kW Wind Turbines

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Benefits

- Low cost renewable power
- Quick and easy installation
- High return on investment
- Lowers long-term electric costs
- High reliability
- Low maintenance
- Fast delivery
- Withstands extreme weather conditions
- Reduces toxic pollutant emissions
- Creates “green” brand image

Applications

Islands

Ski resorts

Businesses

Universities

Big box stores

Resorts & hotels

Rural electric co-ops

Industrial complexes

Large commercial farms

Manufacturing facilities

Municipal electric utilities

Community wind projects

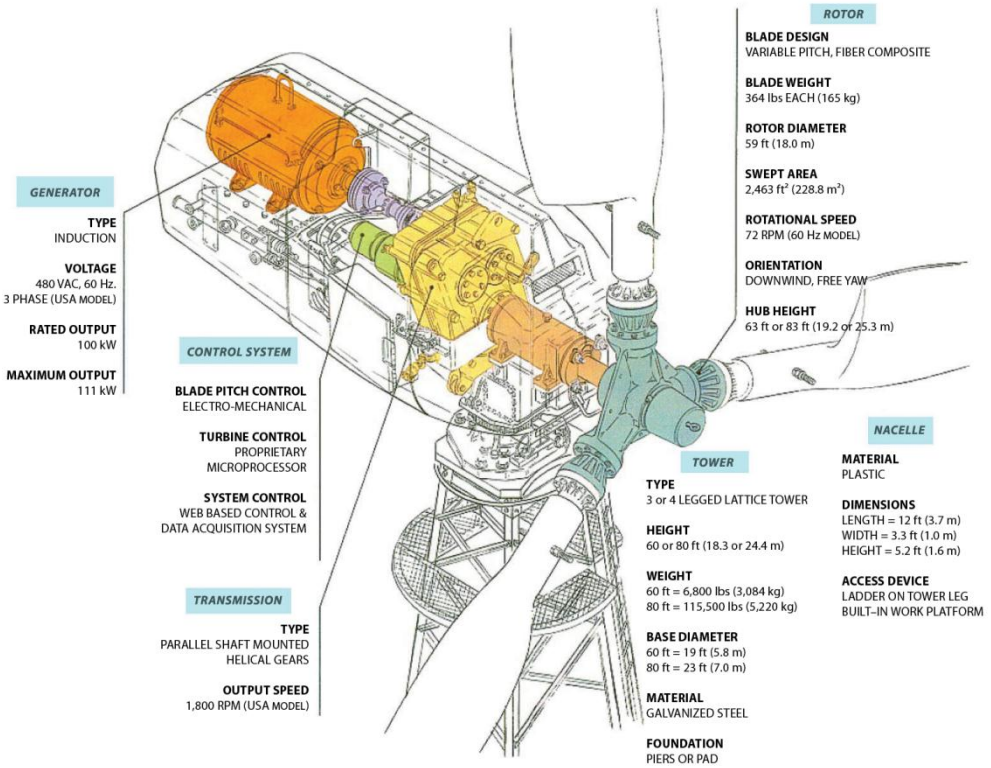
Municipal water treatment plants

High Reliability/Availability

Over 5,000 of these 100 kW wind turbines have been installed in five countries around the world. Now in operation for over 20 years, the KCS56 wind turbine product line has produced well over 13 billion kWh since the model's inception, which demonstrates the quality of the design and the overall reliability of the product.

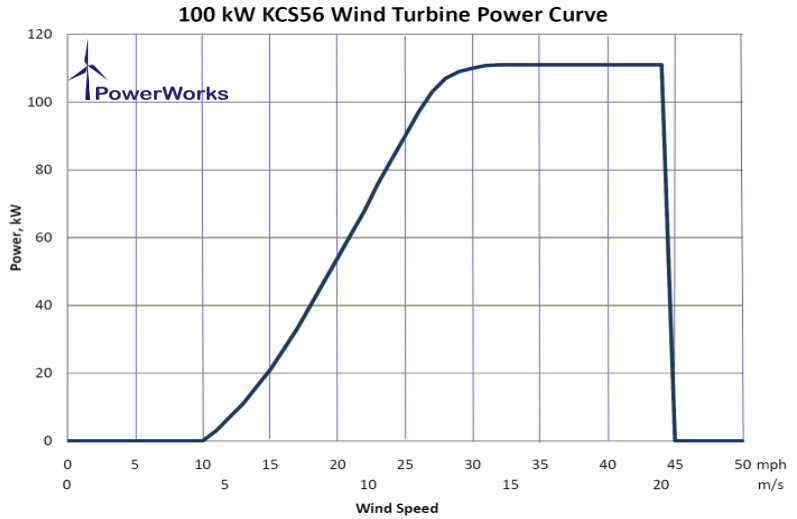
Further, the historic turbine operating availability from our Altamont Pass operations, typically at approx. 97% to 98% availability for the past 10 years in a row, confirm this turbine's overall remarkable reliability. The 100 kW KCS56 wind turbine is one of the most reliable wind turbines ever built!

Robust Design

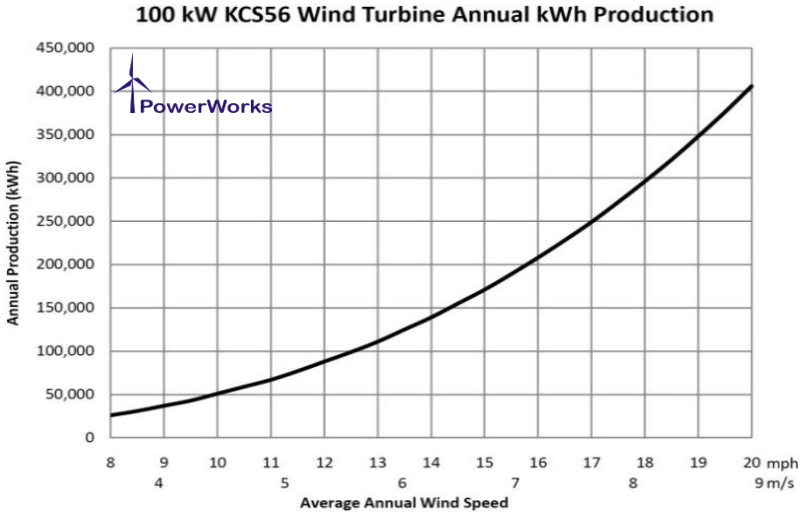


- rebuilt or new wind turbines
- standard 2-yr warranty or extended 5-yr warranty
- 60 Hz to 50 Hz converter for international applications
- extensive spare parts inventory
- complete turbine repair services
- comprehensive project / site engineering
- site wind resource analysis
- energy production forecast
- turbine installation and commissioning
- operation and maintenance services
- support services to fit your needs
- 24/7 tech support

Power Curve



Annual kWh Production



Specifications

Generator	induction 480 VAC, 60 Hz, 3 phase
	rated output 100 kW
Transmission	2-stage helical gearbox, 25:1 ratio
	1,800 rpm output, 72 rpm input
Rotor	variable pitch blade design
	rotor diameter 59 ft (18.0 meters)
	swept area 2,463 ft^2 (229 m^2)
	rotational speed 72 rpm
	downwind orientation, free yaw
Blades	fiberglass, 27.3 feet (8.3 m)
Tower	60 ft (18.3 meters) and 80 ft (24.4 meters) lattice towers
	up to 140 ft (42.7 meters) tube towers
Control System	web-based automated control system

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