

Potential Enhancements for High Performance

Increased power production and performance requires a larger and stronger system



Whisper 500: Increased power performance

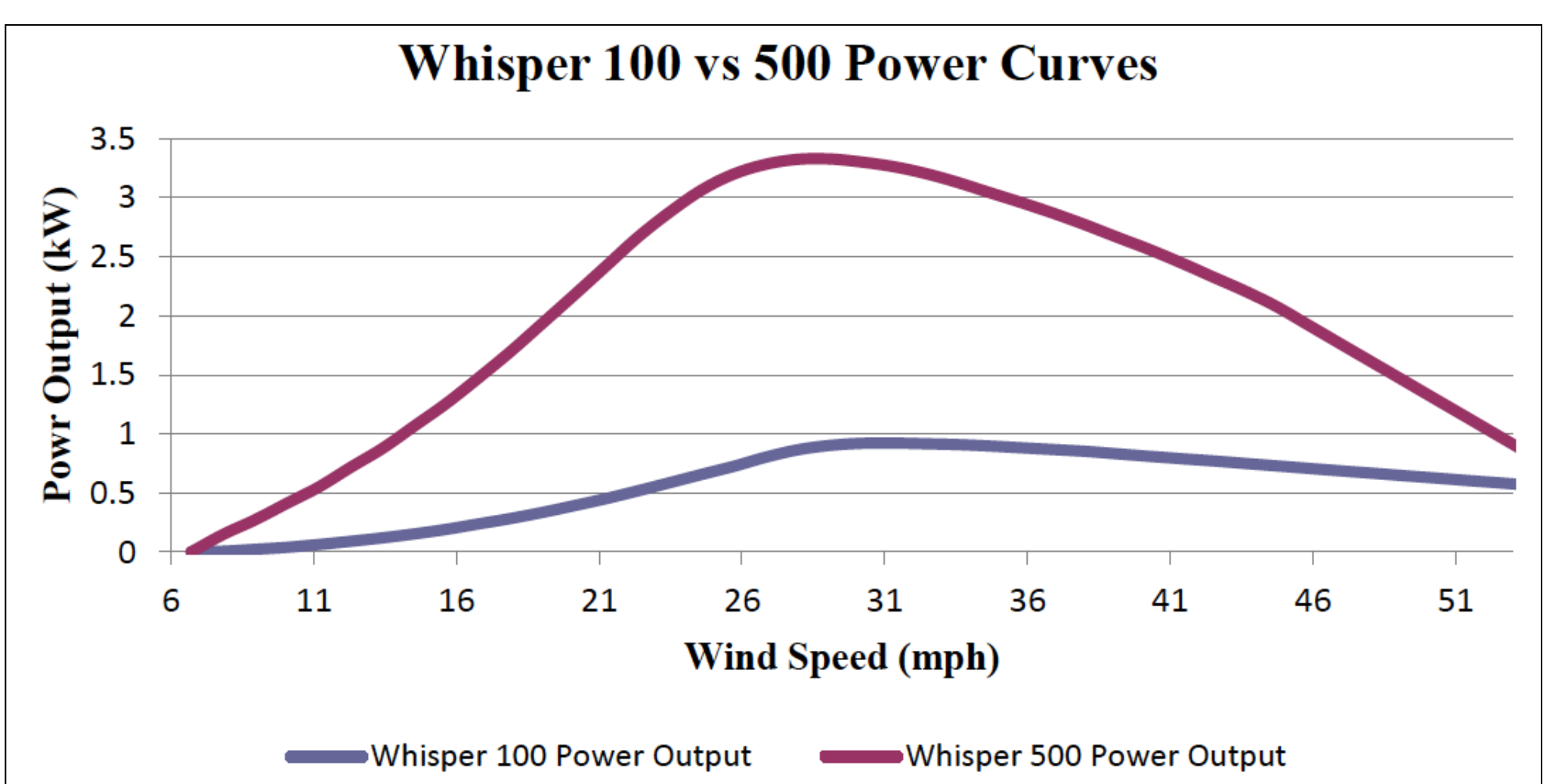
Comparison with current system

- ❖ Current system: Whisper 100 is lightweight but has limited performance due to the size of the blades
- ❖ Updated system: Whisper 500 produces up to 4 times more energy than the Whisper 100, for comparable testing sites and conditions

Specifications of new turbine

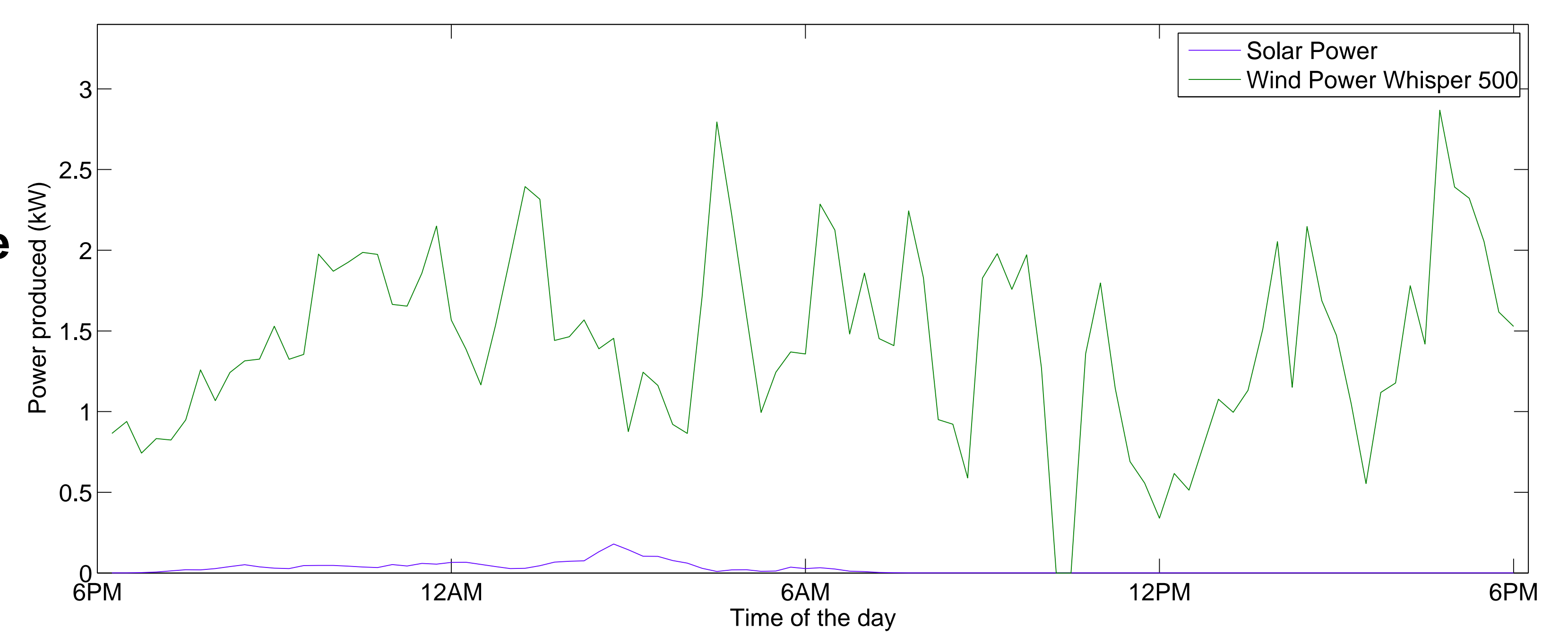
Turbine:	Whisper 500	Whisper 100
Rotor Diameter:	15 ft	7ft
Weight:	155 lbs	47 lbs
Startup WindSpeed	7.5 mph	7.5 mph
Rated Power	3000 Watts at 24mph	900 Watts at 28mph
Body	Welded Steel	Cast Aluminum
Kw Hours per/month	538 kwh/m	100 kwh/m
Survival wind speed	120 mph	120mph

- ❖ Rotor Diameter: 15 ft.
- ❖ Weight: 155 lbs.
- ❖ Start up wind speed: 7.5 mph
- ❖ Rated power: 3 kW at 25 mph
- ❖ Peak power: 3.2 kW at 27 mph

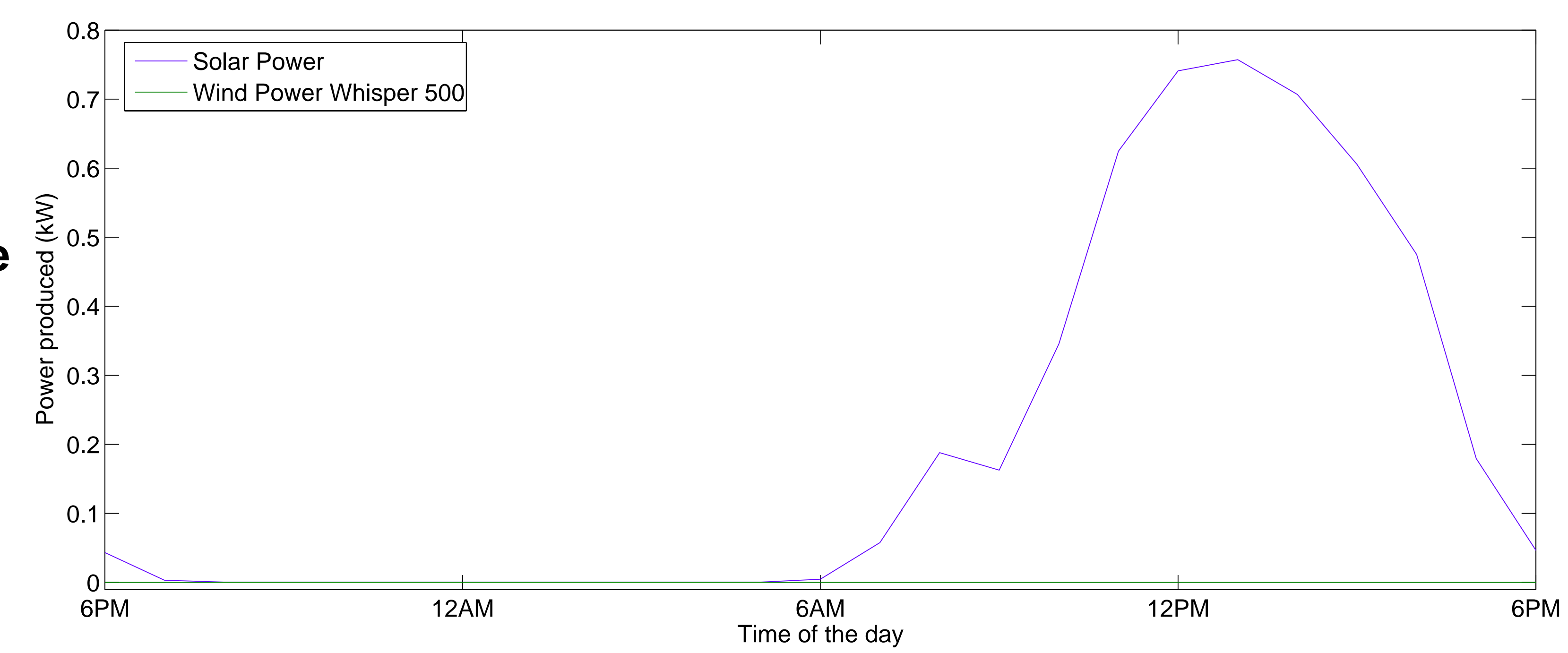


A hybrid power generator provides reliable production in all weather conditions

Power performance on a windy day



Power performance on a sunny day



Premium Mast: Improved structural stability

Comparison with current system

- ❖ Current system: Aluma Tower (truss structure) is tall but heavy, and cannot support the weight of the Whisper 500
- ❖ Updated system: Total Mast Premium pneumatic tower is light, easy to deploy, and strong enough to support the Whisper 500

Tower	Total Mast Solutions Tower	Current Aluma Tower
Full height	24 feet	32 feet
Deployment	One-point of pivot, one guywire, pneumatic	Track system, 2 sets of guywires, cranks and pulleys
Advantages	Pneumatic, lighter	No air compressor needed, manual setup, taller

Specifications of new system

- ❖ Collapsed length: 10.8 ft
- ❖ Erected length: 24 ft
- ❖ Width: 9"
- ❖ Circumference: 32"

