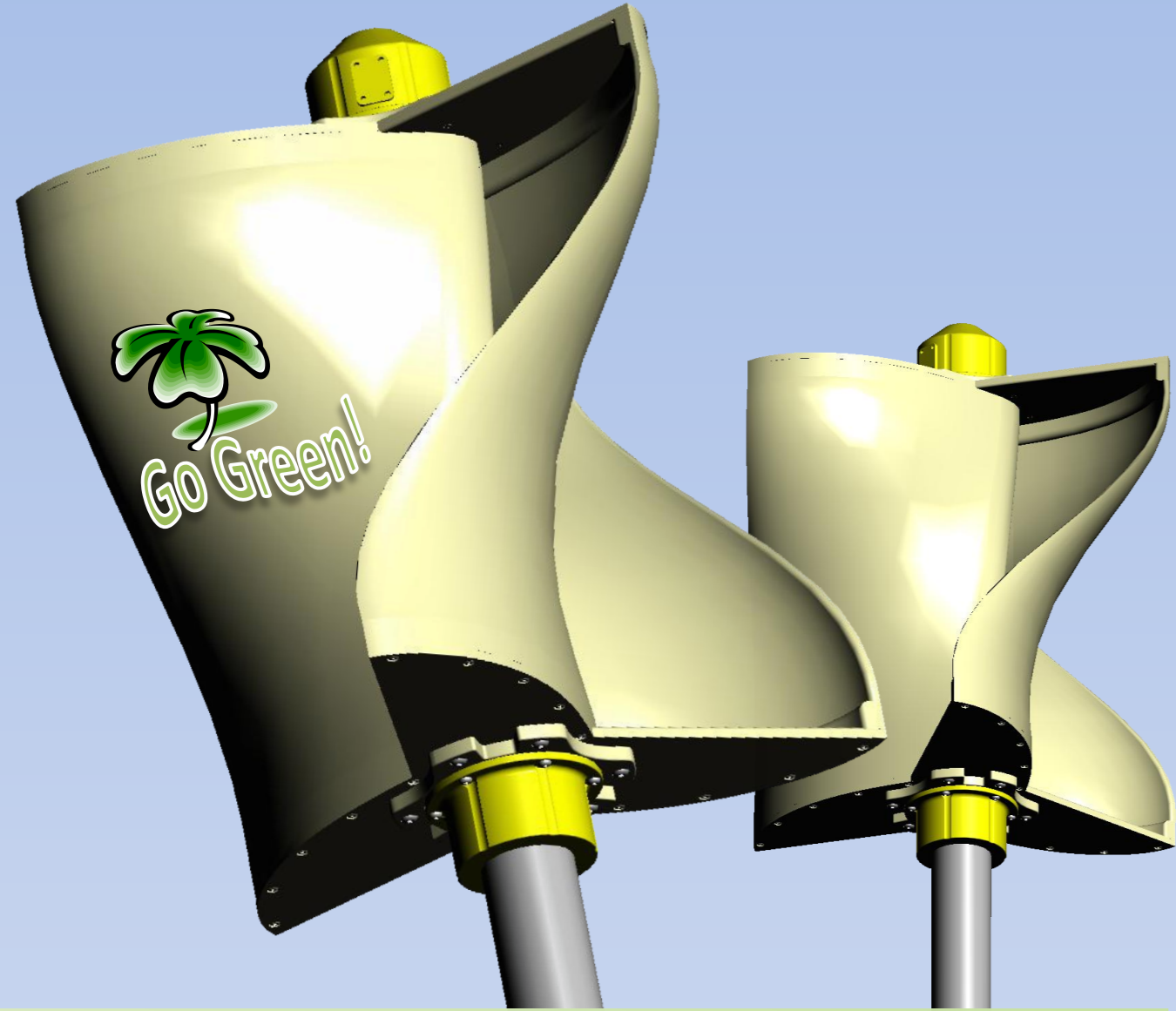




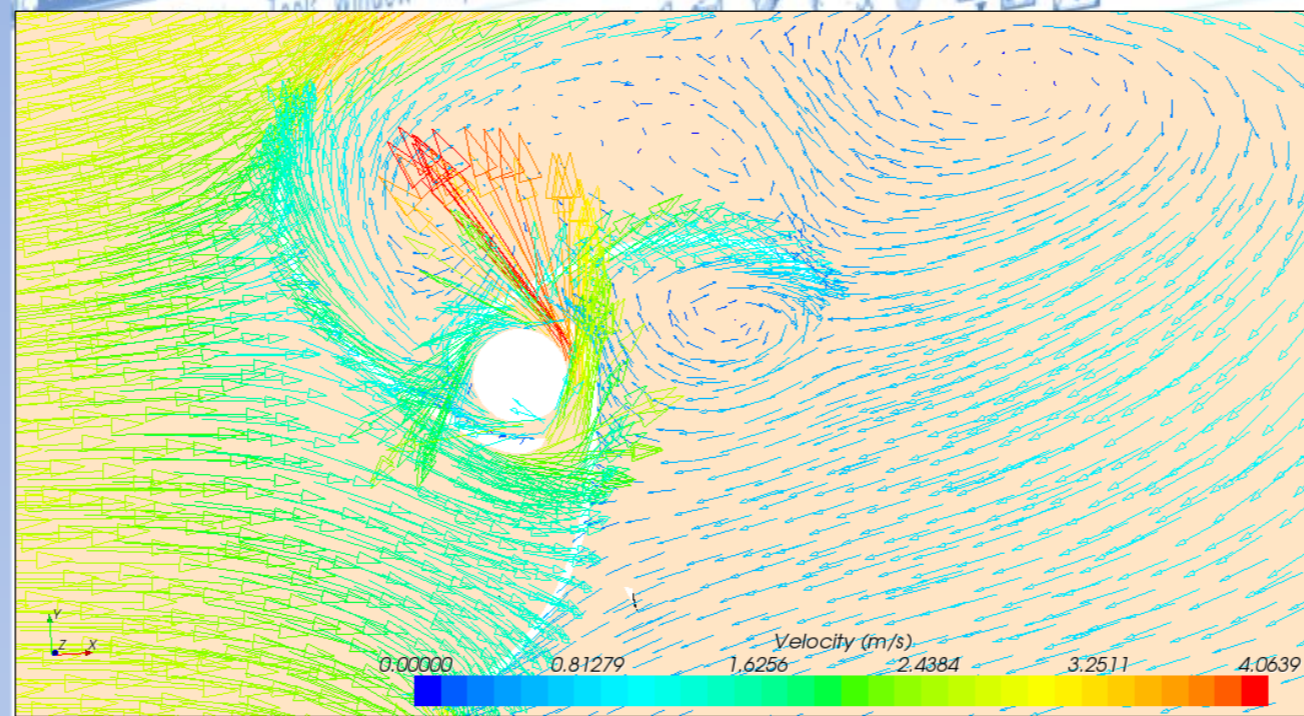
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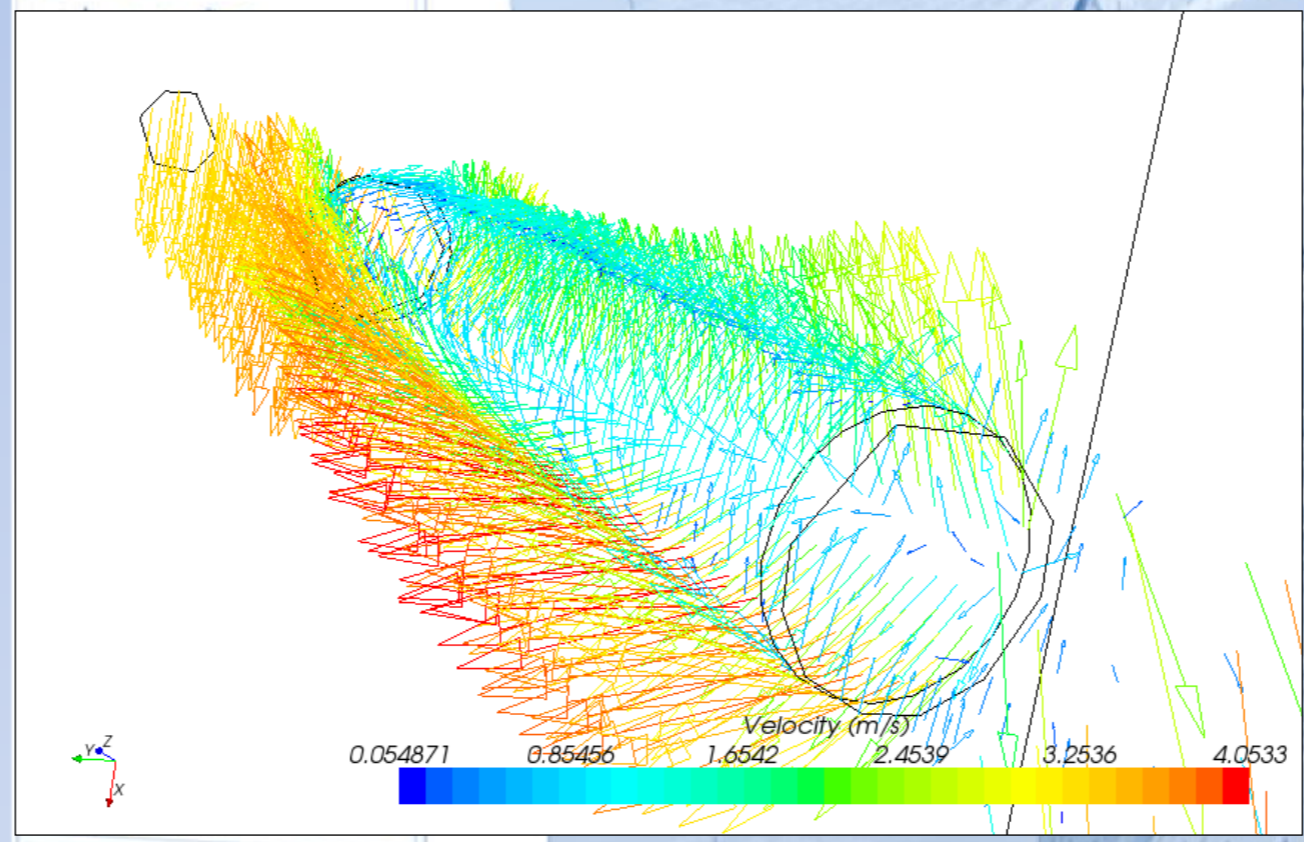


CherWind™ Compressed WindTurbine

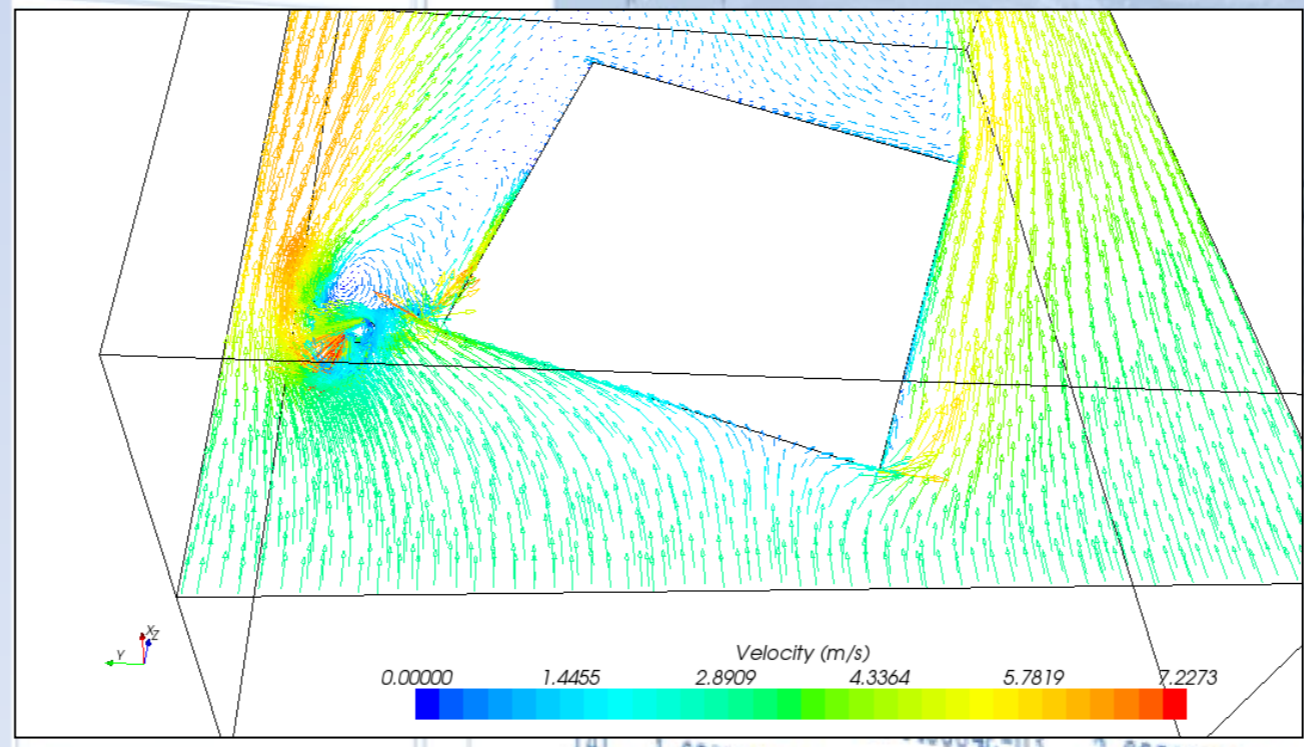
Design with CFD simulation :



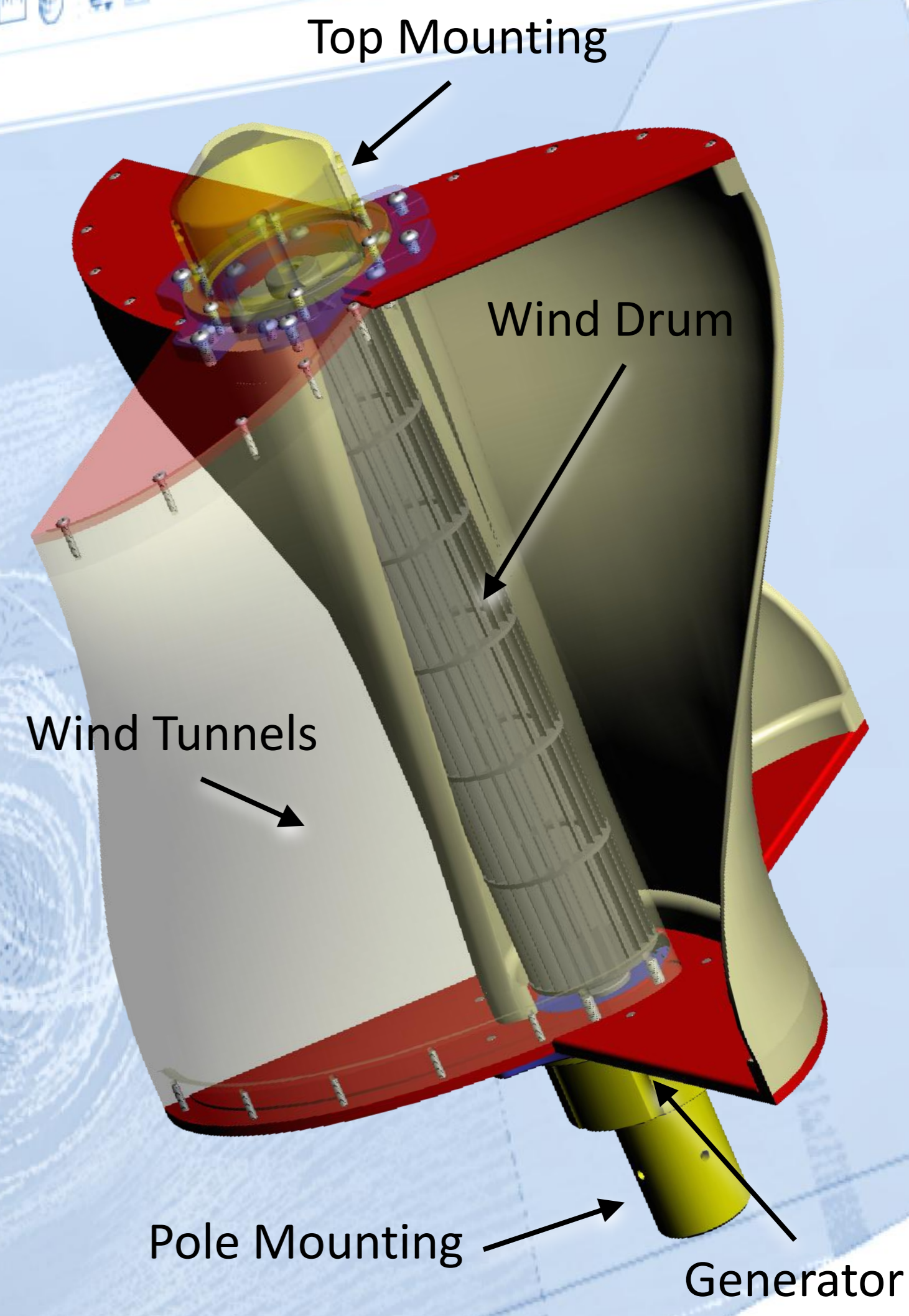
Wind Velocity boost up from 3.0m/s to 4.0m/s (33.3% increase)



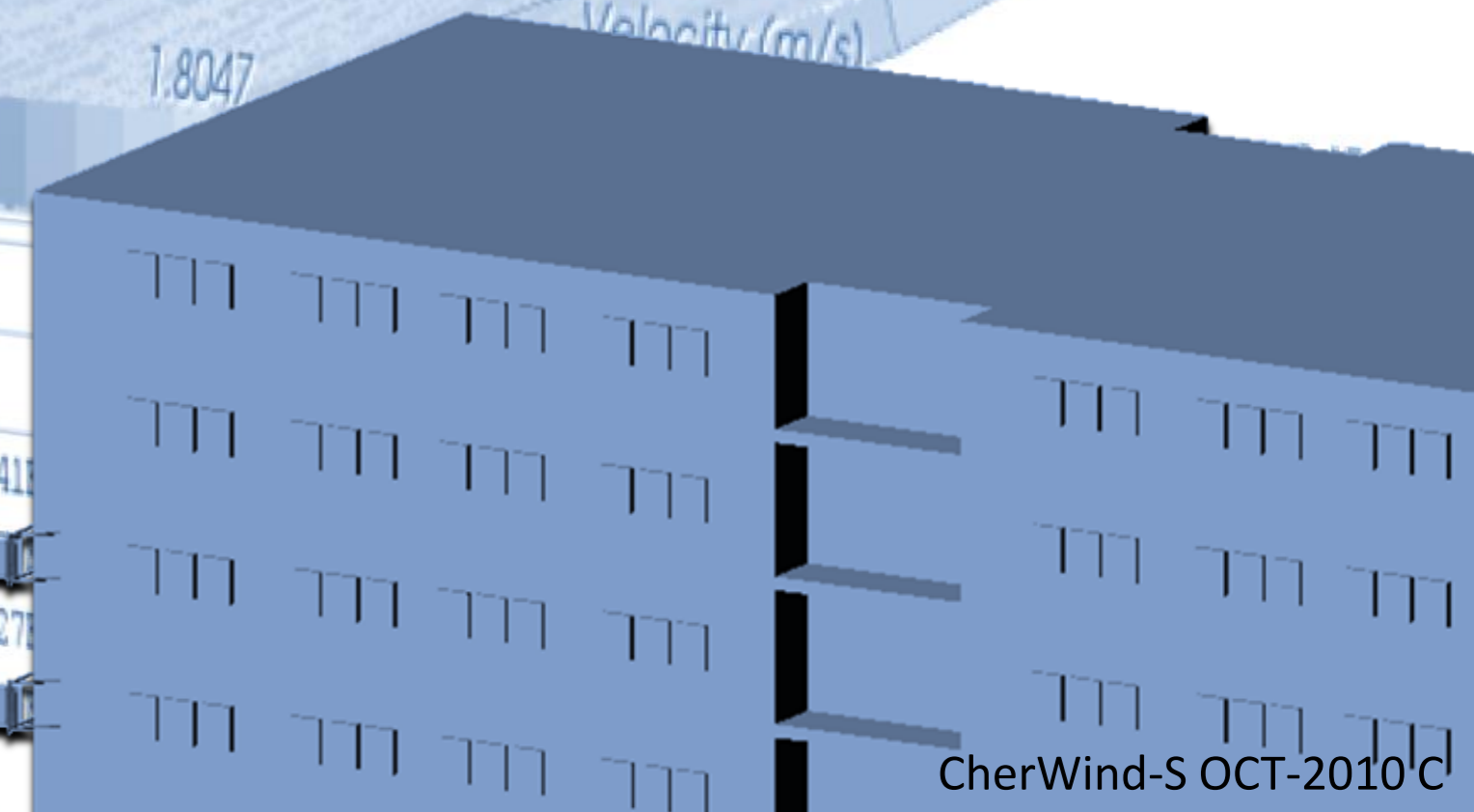
Wind Velocity on Wind Drum Area



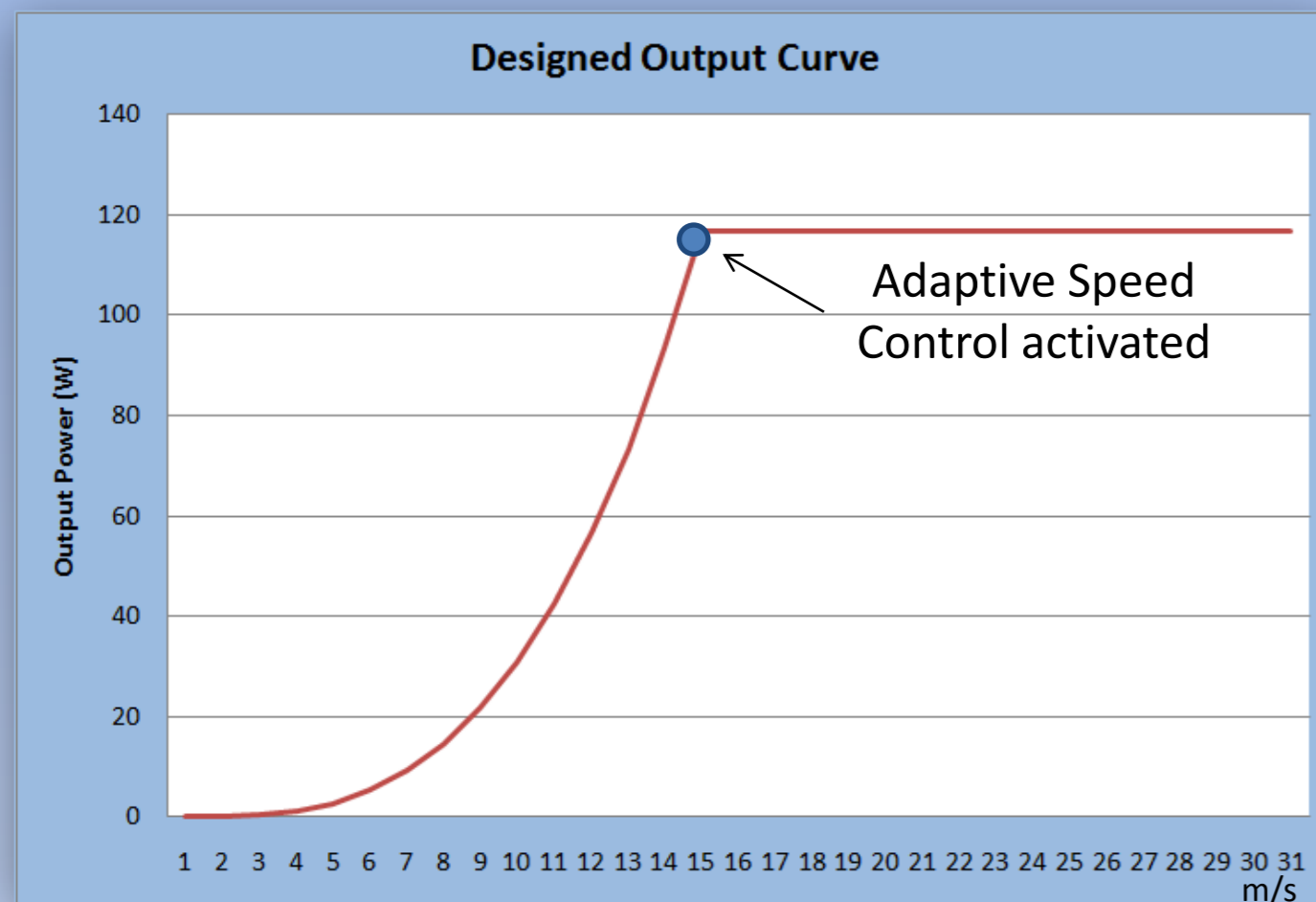
Turbulence with Building Simulation



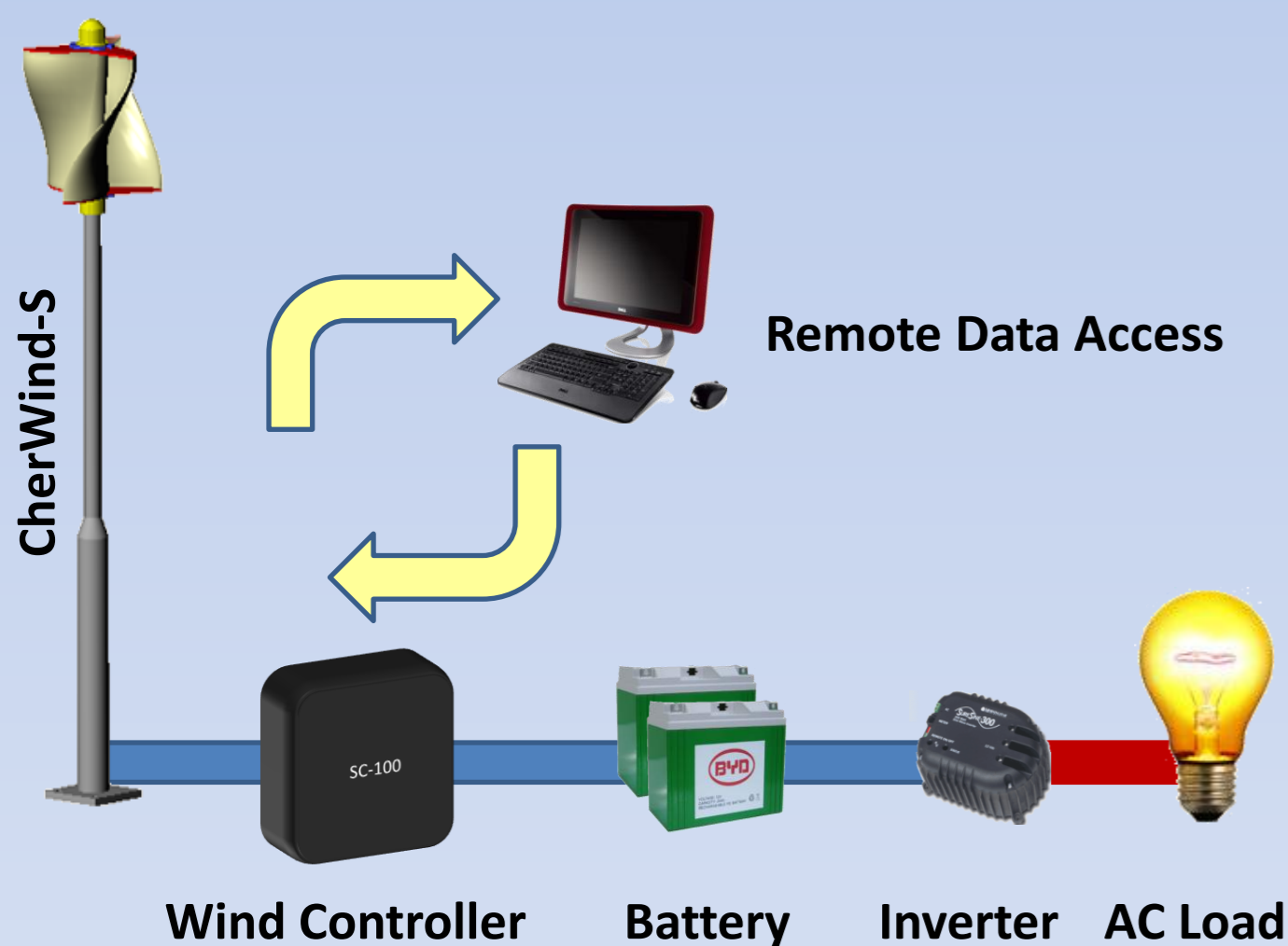
* Turbine color shown here is for illustration purpose only.



Power Curve:

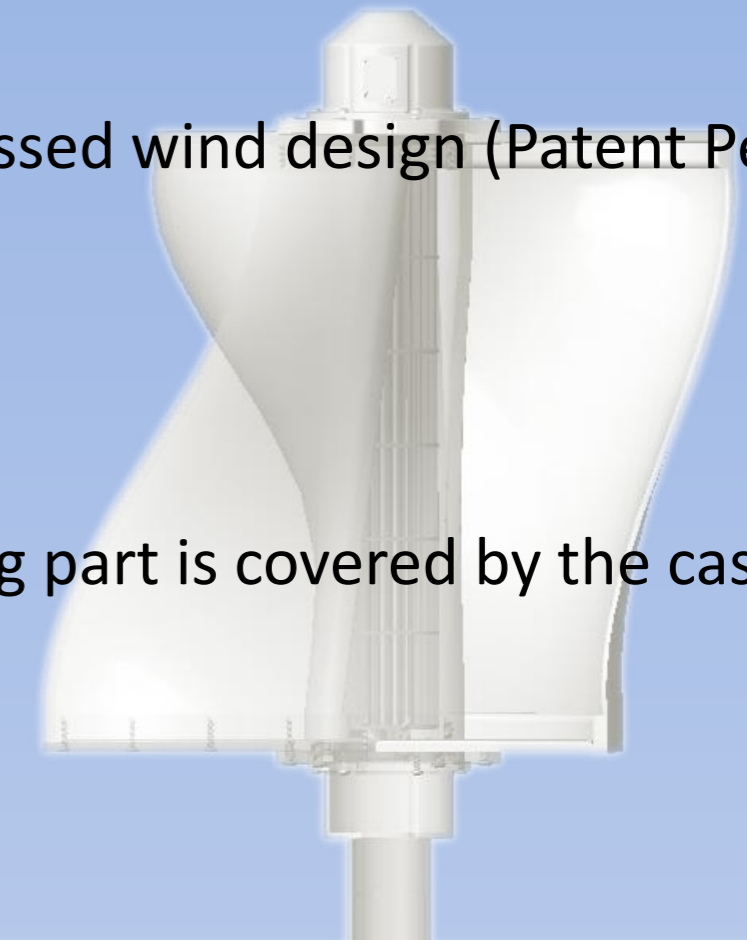


Off-Grid Configuration :



Special Features :

- 1) Low startup speed – Velocity boost up based on compressed wind design (Patent Pending).
- 2) Adaptive Speed Control algorithm (IP is in processing).
- 3) High net force with tunnel effect design.
- 4) Effective noise level control with concealed casing.
- 5) Stationary design with capturing wind in 360 degree.
- 6) Minimum impact on migrating bird and visuals as moving part is covered by the casing.
- 7) Pre-factory High Speed Balancing.
- 8) High Power to Foot-print ratio compare to other VAWT.



Design Specification :

Model Name	CherWind™ S-100
Rated Power (W)	100
Startup Wind Speed (m/s)	<1.0
Cut-In Wind Speed (m/s)	2.0
Rated Wind Speed (m/s)	13.5
Safety Wind Speed (m/s)	40.0
Tunnel Length (m)	0.60
Tunnel Width (m)	0.25
Tunnel Quantity (pc)	3
Tunnel and Body Materials	ABS & Aluminum alloy
System Regulated Voltage (VDC)	12 / 24
Braking System	Electrical Torque
Generator	3 Phase PM Generator
Tower Height (m)	3
Yaw Control	Stationary Design
Suggested Battery Capacity (For Off-Grid)	12V 80AH x 2
Control System	Build-in Intelligent Power Management - Adaptive Speed Control - Datalogging - Safety Control - Communication (Wireless is optional)
Protections	Build-in
Balancing	Pre-factory High Speed Balancing
Communication	RS-485 (default) + Wireless (optional)



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*Design and specifications is subjected to change without further notice. Please visit our website for the latest update and news.