

# Airdolphin Wind Turbine Takes Flight

## WHAT IS OUR NEW TECHNOLOGY?

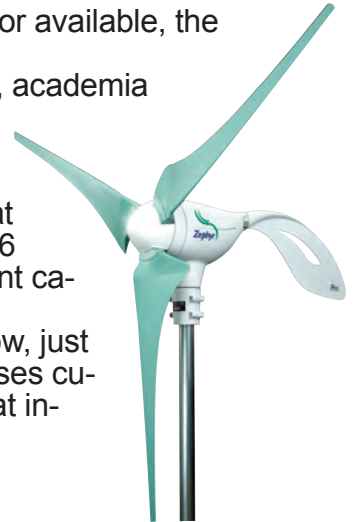
Zephyr Corp. offers the most advanced and powerful small wind power generator available, the Airdolphin, targeting off-grid industrial applications.



Developed by a team composed of experts from industry, academia and government, the Airdolphin wind turbine is designed to offer the very best performance in its class.

Built with ultralight and stiff carbon skin blades, this next generation wind turbine is rated at 1kW, is extremely light at under 40 lbs. (17.5kg), works seamlessly — cutting in at 5.6 mph (2.5 m/s), and never cutting out, achieving a 40 percent capacity factor.

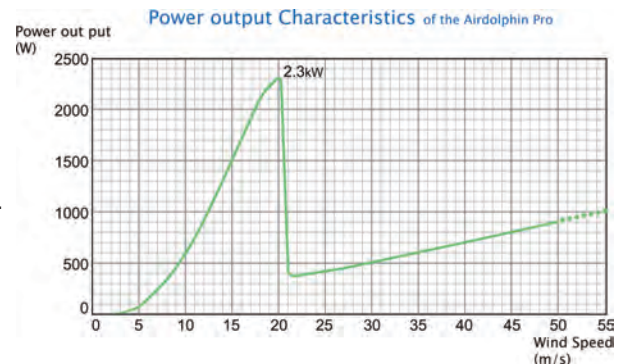
The newly invented swing rudder moves in a turbulent flow, just like a fish swimming against a strong current, which increases cumulative energy generated. This graceful movement is what inspired the name “Airdolphin.”



## WHAT SETS US APART?

The Airdolphin — along with its award-winning design — offers eight state-of-the-art technologies:

- Extremely low mass, allowing installation in a wide variety of places;
- A newly designed rudder, enabling superior response to changes in wind direction and increasing the ability to capture wind;
- A newly designed multistagger rotor, incorporating multiple airfoils and lift angles for enhanced flexibility in changing conditions;
- An innovation for quiet operation, keeping the turbine unobtrusive;
- A power assist function, allowing the rotor to reach its cut-in point more quickly;
- A robust, boltless self-fitting body, ensuring superb durability;
- An intelligent power management system, automatically moderating speed in extremely strong winds, which allows for continued power generation; and
- A two-way communication system for ease of use and data collecting.



## WILL IT SELL?

Zephyr holds a 50 percent-60 percent market share of wind turbines in Japan, and has 40 partners in 24 nations, so the Airdolphin is a proven product globally. In Japan, green-conscious corporations make up the majority of users, followed by private households, schools and government offices, proving that the potential range of users is large. This year, Zephyr established its North American office, American Zephyr Corp., and is looking for distributors for the industrial market, such as telecom.

As efforts to combat global warming intensify, renewable energy sources like wind will become increasingly important, and products like the Airdolphin increasingly desirable. The wind industry is expected to evolve into a major multibillion dollar market – the largest among renewable energy sources. The Airdolphin offers a way for users to join the global fight against climate change while saving locally on their own energy costs.



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