

Tyer wind turbine

"It's inspired from the famous hummingbird," said inventor Anis Aouini. "It is the most efficient bird. The blade that rotates does not exist in nature. We cannot find any example worldwide."

The hummingbird was looked at for being nature's most energetically efficient flyer. It has a unique morphology that allows it to flap its wings between 50 and 200 times a second. The hummingbird is the only bird that can hover and fly backwards.

Tyer Wind has taken how a hummingbird moves its wings and created a paradigm-shift vertical axis wind converter. Instead of traditional blades, it has "flapping wings" that convert wind energy into electricity based on 3D Aouinian Kinematics.

The 3D Aouinian Kinematics, discovered by Aouini, converts a linear motion into a rotational one, giving it the capability of mimicking animals such as the hummingbird, insects, and fish in an efficient way.

Because the Tyer Wind technology converts the resultant force of the lift and drag into work, it has a limited level of drag. This has two big advantages: lower solicitation at the mast that results in lower civil work costs, and the converter can resist high wind velocity and generate more energy.

And since the blades oscillate instead of spin, the converter creates a limited vortex. This would allow more of Tyer Wind's turbines in a wind farm as compared to traditional models.

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