



**ENERGIEX**



# Wind Turbines



**Free, no-obligations survey**

3d modelling shows you how installation will look



**Game-changing technology**

Forecasting power generation & savings



**Award-winning renewable products**

Handpicked for quality and performance



**Quick installation from expert technicians**

We guide you through the planning process

# Powering your future with the wind

If you're looking for sustainable ways to power your home, solar isn't your only option. The wind is clean, green and a limitless source of energy – and you don't need to live on a plain or in a wind tunnel to benefit from its power. In fact, growing numbers of homes in France and around the world are using wind turbines to create their own renewable energy.

But what kind of turbines are the best? And which companies have the highest-performing products?

As with all our renewable energy products, we've been hard at work researching all the options. And, we've partnered with Korean experts Hi-Energy, whose vertical axis wind turbines are the best on the market. Unlike propeller turbines, they work best in climates with mild winds and frequent changes in wind direction.

This table outlines the key benefits of the turbines – and the reasons that we selected Hi-Energy over other manufacturers. Read on for illustrations and further technical information. And if you're looking for a complete technical specification please get in touch.



## Hi-Energy Vertical-Axis Wind Turbine

- ✓ High efficiency provided by rotating blades, sweep back angle and double blade structure
- ✓ Lift and drag means zero rolling resistance
- ✓ Minimal noise thanks to lack of gear and coil
- ✓ Operate independently of wind direction
- ✓ Outstanding structural stability
- ✓ 10-year warranty



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# System structure

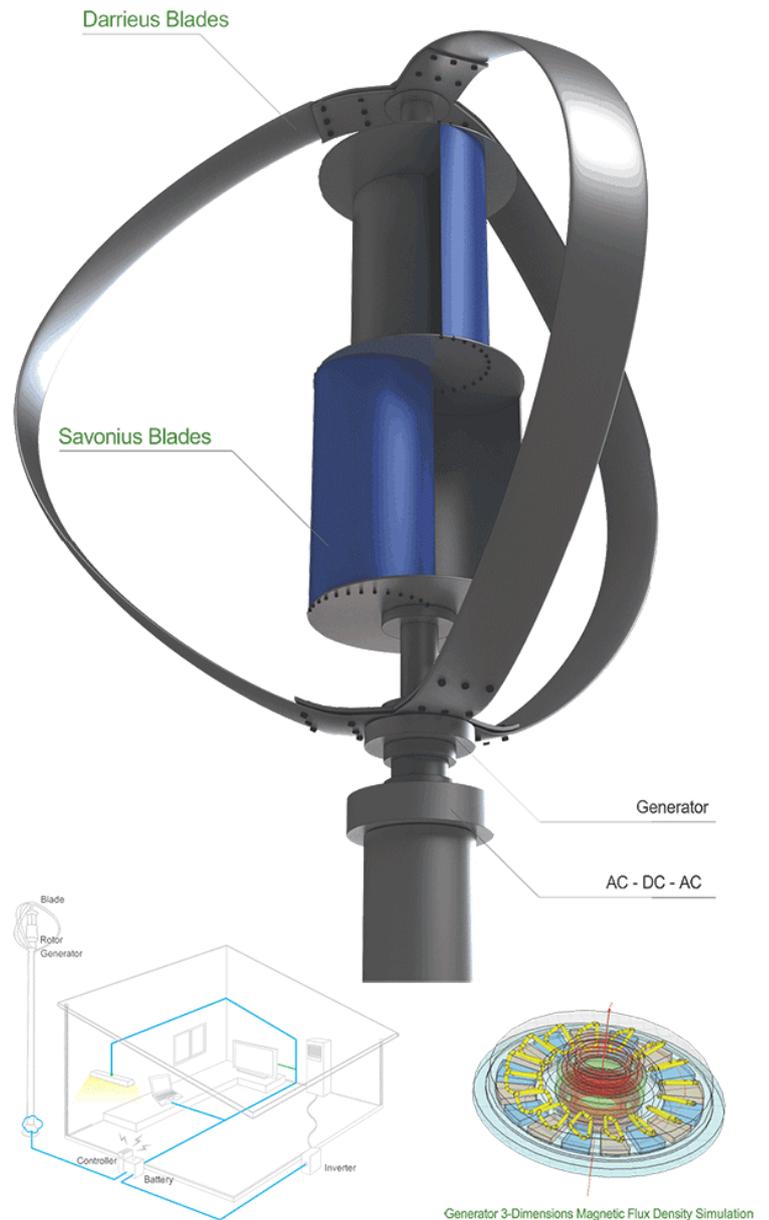
**Rotor:** Connected joints of blade, central axis of wind turbine.

**Blades:** Wings that rotate by the wind. Same structure as the wings of an airplane with lift rotor blades; increases accelerating force through tension and enables abrupt acceleration in wind speed. Delivers power needed for starting the blades of drag force; applicable for various types of winds; convenient to convert to lift force after acceleration through drag force.

**Generator:** A device that converts rotations of blade into electrical energy PMG-type Generator (PMG: Permanent Magnet Motor). Even if wind stops blowing, there's no rolling resistance problem caused by zero load. Therefore, it maintains rotating status for a certain while, boasting high energy resilience when wind starts blowing again.

**Controller:** A device for charging/controlling the generated electric energy in (rechargeable) batteries.

**Battery:** Gathers the generated electricity to provide power when needed.



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# Advantages

**High efficiency achieved by acceleration through a sweep-back angle:** Even more energy generated under the same wind speed (other products generate energy in proportionate to wind speed)

**Independence over wind direction:** Other products generate less energy against a head wind, however, our products generate more energy. Energy conversion is available for any direction of winds.

**Energy generation by gentle winds:** Our generator in the form of PMG (Permanent Magnet Motor) has no gear or coil. This permanent magnet motor can be propelled even with light winds unlike other turbine motors.

**Double-blade structure inside and out:** Savonius blades are used on the inside for operation by gentle winds, while Darrieus blades are adopted on the outside for achieving high efficiency alongside the inner blades.

**The world's only product with the benefits of lift force and drag force altogether:** Our turbine starts operating by gentle winds and keeps running for a long while even when there's no load because of its zero rolling resistance. It also boasts of high energy resilience when winds start blowing again.

**Minimized wind resistance:** Other turbines, although it is a vertical-axis type, are susceptible to bending and damage, leading to heat error, due to a difference in the area affected by winds. By the contrary, our turbines are designed to circulate the wind flows, minimizing damage and consequent heat error.

**Less noise caused by rotation:** Our turbines have no gear and coil, causing no frictions. Therefore, the coating phenomenon and noise issue caused by blades rotations are effectively addressed.

**Excellence in maintenance and structural stability:** Double-jointed blade structures and anodizing finishing contribute to heightened durability and structural stability of our product.



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# It's time to transform the way you power your home

We empower you to control your energy future – reducing your costs and impact on the planet.

We've partnered with leading global developers of renewable energy products from solar panels to storage solutions and wind turbines to bring you the best systems at preferential prices – and invested in game-changing software to optimise every stage of your switch to green energy.

Get in touch to find out more and book your free, no-obligations survey.



[\*\*info@energiex.fr\*\*](mailto:info@energiex.fr)



[\*\*energiex.fr\*\*](http://energiex.fr)



**+33 970 464 789**

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