



# Will the wind turbine blades turn upside down





## Overview

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A radical new wind turbine design due to test soon in Norway has the potential to turn offshore wind energy production upside down — or at least sideways, with an unusual twist. If successful, the "counter-rotating vertical-axis turbines" from Norwegian startup World Wide Wind (WWW) could. Off the southwest coast of Norway, a strange-looking wind turbine is quietly making waves—by spinning in reverse. This eliminates the need for complex mechanical systems to orient the turbine. From your pictures it looks like your turbine should run clockwise: The fat edge is on that side. 5-megawatt wind turbine at NREL's Flatirons Campus were turned downwind. In 2012, two wind turbine blade innovations made wind power a higher performing, more cost-effective, and reliable source of electricity: a blade that can twist while it bends and blade airfoils (the.



## Will the wind turbine blades turn upside down



### Norway tests world's first upside-down wind turbine -- a bold design

Developed by the Norwegian startup World Wide Wind, this 30-kilowatt floating prototype flips the traditional design upside down. Instead of blades perched high on a tower, it's anchored from below ...

### The Controversial Spin: Why Most Wind Turbines Rotate ...

When viewed from upstream, most turbine blades spin clockwise. This isn't random but rather a deliberate design choice that has become the norm across wind farms worldwide.



### Article Title: The uWIN

Large rotating turbine blades located at high elevations are not required (uWIN turbine generator and heavy equipment are located on the ground and large turbine blades are not part of the uWIN.)

### Flipping the Script On Traditional Wind Turbine Technologies

Since the 1980s, wind turbine developers have been using what is called the "Danish concept" for their designs--three blades, positioned upwind (i.e., facing the wind), that are engineered



## Goodbye to traditional turbines--Norway unveils an innovative "upside"

Instead of having a horizontal axis, this turbine is completely vertical, which means its blades can capture wind coming from any direction. This eliminates the need for complex mechanical ...

## Looks like an upside-down wind turbine: It's a totally-new source of ...

In wind energy, the bigger the turbine, the more electricity is produced. This, coupled with the blades which rotate in opposite directions, enables the turbine to capture and convert more wind ...



## Bends, Twists, and Flat Edges Change the Game for Wind Energy

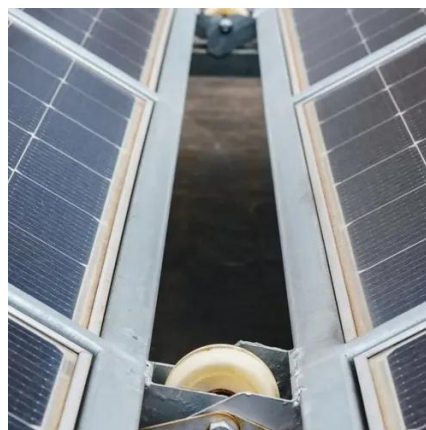
In 2012, two wind turbine blade innovations made wind power a higher performing, more cost-effective, and reliable source of electricity: a blade that can twist while it bends and blade airfoils ...

[Are My Blades upside down? :](#)



## [r/windturbine](#)

If your turbine runs counter-clockwise, you might have them upside down; the small edge cutting into the wind first, creating additional drag when the fat edge leaves a vacuum behind.



## **New wind turbine design with 'surprising twist' could revolutionize**

A radical new wind turbine design due to test soon in Norway has the potential to turn offshore wind energy production upside down -- or at least sideways, with an unusual twist.



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