



# Which direction do the wind blades of the generator set blow





## Overview

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In normal operation, the rounded front portion of the blades is oriented in the direction of rotation and the flat portion faces the wind. The front of the blade is referred to as the leading edge and the back is referred to as the trailing edge, as illustrated in Figure. A wind turbine turns wind energy into electricity using the aerodynamic force from the rotor blades, which work like an airplane wing or helicopter rotor blade. By orienting an airplane wing so that it deflects air downward, a pressure difference is created that causes lift. Wind turbines can have a horizontal or vertical axis. Generator. The blades of modern wind turbines are aerodynamic wings that create lift as wind blows across them.



## Which direction do the wind blades of the generator set blow



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### [Wind Turbines , Alternative Energy in New York](#)

Turns (or pitches) blades out of the wind to control the rotor speed, and to keep the rotor from turning in winds that are too high or too low to produce electricity.



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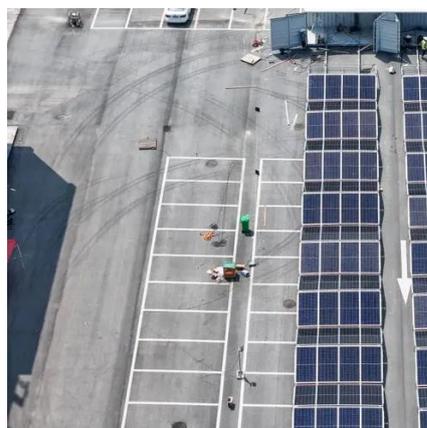


### Putting Wind to Work

The enormous, stiff blades on a horizontal-axis wind turbine usually face the wind (upwind). A wind vane or wind sensor determines which way the wind is blowing, and turns the turbine to face the oncoming ...

### [Article 5: The Single Wind Turbine: From the Wind to the Blades](#)

As you approach an individual wind turbine, its enormity becomes apparent. You realize that the blades and tower must bear the force of the wind pushing them backwards, and they must be very strong to ...



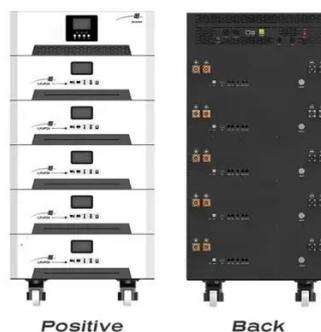
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### How a Wind Turbine Works

When wind flows across the blade, the air pressure on one side of the blade decreases. The difference in air pressure across the two sides of the blade creates both lift and drag. The force of the lift is ...



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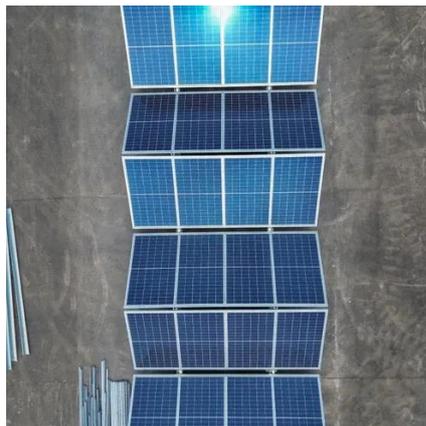
### Wind Turbine Blade Aerodynamics

In normal operation, the rounded front portion of the blades is oriented in the direction of rotation and the flat portion faces the wind. The front of the blade is referred to as the leading edge and the back is ...

[Which direction does the wind from the generator blow](#)



A North wind blows FROM the North TO the South. When you hear someone say North wind, East wind, South wind, or West wind, they are referring to the direction the



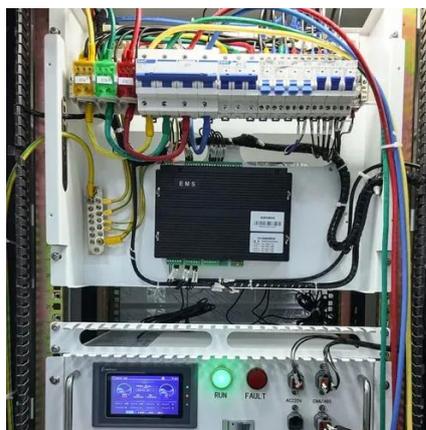
[How Wind Turbines Work , EARTH 104: Energy, Environment, and ...](#)



The direction that the blades are facing can be rotated so that the turbine always faces into the wind, and the pitch of the blades (the angle at which the blades face into the wind) can also be adjusted.

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### [The Physics of Sustainable Energy Generation](#)



Older wind turbines use the force of the wind pushing against them to turn. This occurs because the wind is deflected by the blades (since they aren't parallel to the wind), and the force the wind exerts ...

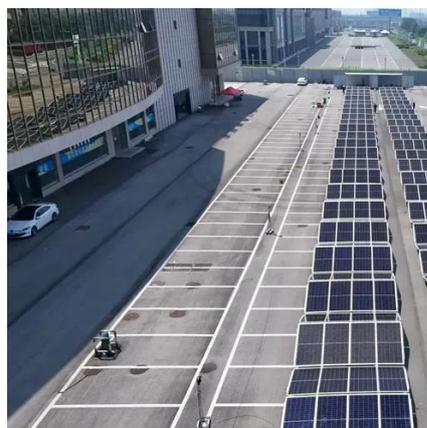


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### wind turbines Flashcards , Quizlet

Study with Quizlet and memorize flashcards containing terms like what are 5 parts of a wind turbine, How does a wind turbine generate electricity?, What are the parts which make up the tower? and more.



### How a Wind Turbine Works

Step-by-step look at each piece of a wind turbine from diagram above: (1) Notice from the figure that the wind direction is blowing to the right and the nose of the wind turbine faces the wind. (2) The nose of ...

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