

# How to make a wind turbine generator with Lego

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How to install a wind turbine fan?

Align the center of the fan to the center of the wind turbine with a distance of 30 cm (= 12 in.) between them. Choose a suitable power setting on the fan that makes the wind turbine rotate at an adequate speed and where the Energy Meter's display shows more than 2.0 V on the input reading. The fan must have an effect of at least 40 W.

Can a wind turbine generate electricity?

Wind turbines have the ability to convert the wind's kinetic energy into electrical energy. They are used to generate electricity for large utility grids and in isolated locations, such as rural farms. Now build the wind turbine and investigate its ability to generate power. Test the model's functionality. Loosening bushings can reduce friction.

How should students handle wind turbines?

Make sure that students handle them with great care! Ensure that students turn the fan off when changing the number of blades during the activity. The task requires students to investigate the performance of the wind turbine at different settings and to read and record the average voltage (V) and the average power (W) generated.

Can a wind turbine rotate around a horizontal or vertical axis?

Wind turbines can rotate around both horizontal and vertical axis. Horizontal-axis wind turbines (HAWT) are most commonly used. (building instructions booklets 3A and 3B, to page 44, step 1).

The wind turbine is a mechanical 173-piece turbine that can spin in any weather. To build a windmill out of Legos, one can download official LEGO's building instructions online for 10268, ...

View the official LEGO 10268 Vestas Wind turbine building instructions online. Step-by-step guide with images, parts list, and construction steps.

The robot uses a wind turbine as its main source of energy. The tutorial concludes by comparing the skills of wind turbine nerd Alex Pucacco to a 12+ years old Lego wind turbine, ...

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Introducing the hand-crankable windmill, which has been inspired from the Vestas Wind Turbine Lego set (10268). The green colors of the set represent the way renewable energy works ...

The complexity of making a wind turbine a can make it difficult to know where to start. This book addresses many aspects of the turbine with practical examples. You'll follow specific ...

a working mini wind turbine, Just like 10268, there are two movable actions, but it has only 174 parts: 1.The blade rotation can be controlled manually or by a M/L motor,(no electronic...

This is a working Lego wind turbine which will produce power for the two LEDs when the blades are turned without an additional power supply. Alternatively, a power supply can be added ...

Explore transfer, transformation, storage and dissipation of energy with reference to conversion of wind energy to electrical energy.

Built using only parts from the Rescue Helicopter (42092) this model of a wind turbine has a hand crank to make it move. The model also features a 3 cylinder back-up generator and a timing ...

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