

Title**Hybrid wind turbine with vertical axis**

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The invention relates to energy, namely to hybrid wind turbines with vertical axis and can be used to transform wind energy into electricity.

Description**EN**

The hybrid wind turbine with vertical axis contains a fixed vertical tower, on which is coaxially placed a basic rotating shaft with the Darreus helical rotor with blades with aerodynamic profile. An additional rotating Savonius rotor is coaxially placed on the tower, with at least two full helical blades. The rotor also contains an electric generator, with the stator to which the basic rotating shaft is rigidly connected, and with its rotor the additional rotating shaft is rigidly connected. The rotor is connected to the tower by a one-way coupling. The basic and the additional rotating shaft are kinematically connected to each other with the possibility of rotating in opposite directions.

Class no.

2. Energy and sustainable development