

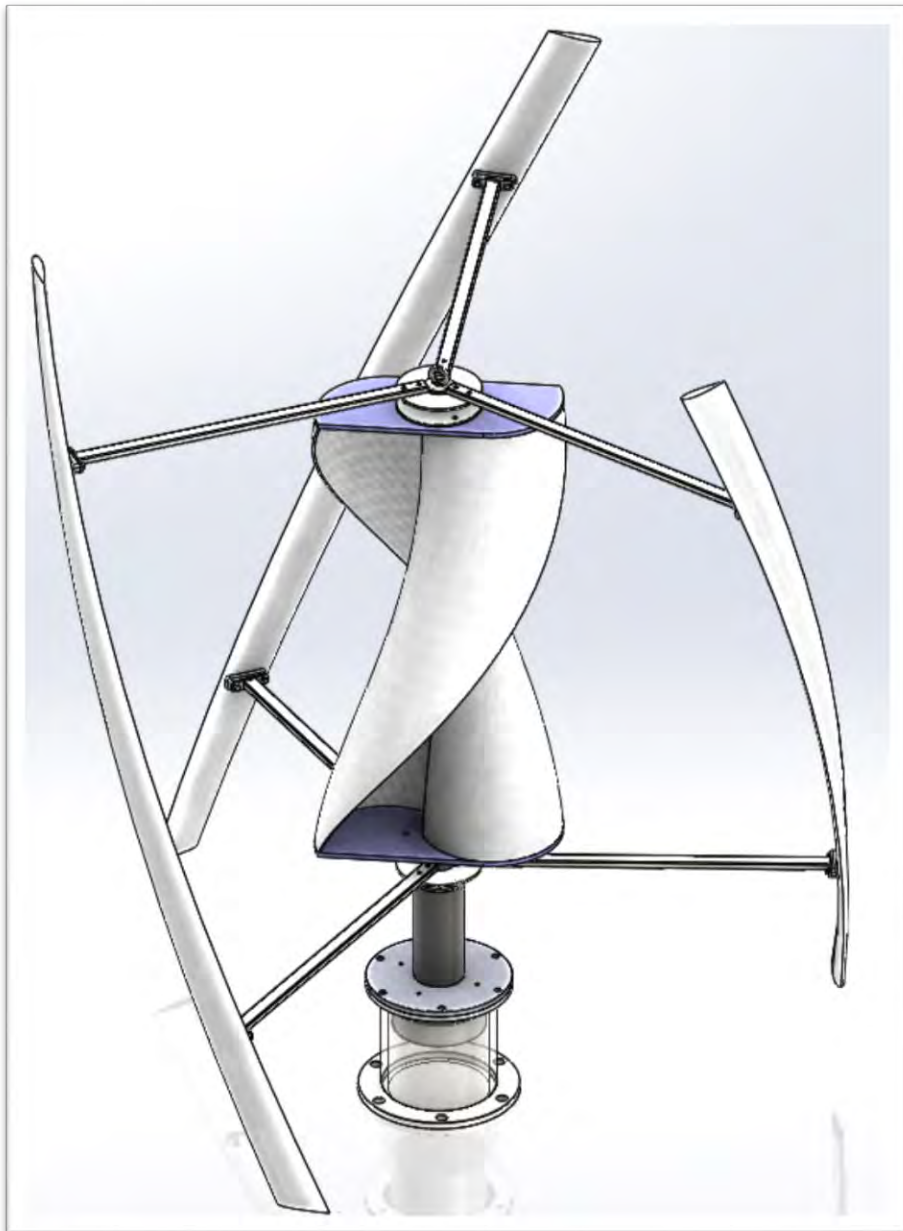
Vertical axis wind turbine with double rotor

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The invention relates to energy, namely to vertical axis wind turbines with double rotor and can be used to transform wind energy into electricity. The turbine can provide greater autonomy to individual and dispersed users (private residential homes, small businesses, street lighting systems, anti-hail systems, etc.).



Computerized model of vertical axis wind turbine



Experimental prototype of vertical axis wind turbine designed, manufactured and researched experimentally at UP Bucharest

- Solution:**
- At wind speeds of 3.0-3.5 m/s the Savonius rotor supplements the torque already generated by the Darreus rotor, ensuring the production of electricity;
 - The shafts of each turbine are kinematically connected to each other with the possibility of rotating in opposite directions.