

Combined vertical-axial wind turbine contains vertical rotation axis, on which Darrieus blade rotor is mounted, and inside it, near the axis, Savonius blade rotor. Inner rotor is made helical with a 180° twist angle opposite to the direction of rotation. Blade of outer Darrieus rotor are mounted at a distance greater than the radius of inner Savonius rotor, proportional to the ratio of their rotational speeds.