

Three-bladed wind turbine with zero aerodynamic drag comprises inner and outer drums, which are coaxially positioned and mechanically connected to each other by at least one chain drive to ensure their synchronous rotation. Three blades are positioned between the inner and outer drums, each of which is secured by its upper edge to the inner drum and by its lower edge to the outer drum. In addition, the wind turbine includes a generator mechanically connected to one of the drums via a chain drive, and a wind turbine orientation system that tracks the wind direction, comprising an anemometer, an electronic control unit, and a rotating turning mechanism. The blades are made of a flexible material and are mounted in such a way that they can deform under the action of the airflow. The inner and outer drums form a two-drum structure in which the blades are arranged so that they can be alternately extended and retracted depending on the direction of the airflow. The flexible blade mounting reduces their aerodynamic drag to zero when they move in the direction opposite to the main rotation of the drums.