

Moreover, dual-stage turbine blades showed larger hysteresis for both ... The flow around single- and dual-stage vertical-axis wind turbines were numerically examined for ...

In this paper, based on the lift-type wind turbine, an adaptive double-drive lift-drag composite vertical-axis wind turbine is designed to improve the wind energy utilization rate. A drag blade was employed to rapidly ...

Scungio M, Arpino F, Focanti V, et al. (2016) Wind tunnel testing of scaled models of a newly developed Darrieus-style vertical axis wind turbine with auxiliary straight ...

2.2 Calculation setup. The present investigation adopts the NACA0021 airfoil as the standard model for the wind turbine, a preference seen in prior studies [38,39,40].Table 1 ...

Features of the N-55 vertical axis wind turbine include: Blades: The turbine is equipped with specially designed blades that maximize energy capture and minimize noise production. Detachable Blade Tips: The turbine's ...

Wind turbines can be classified into two distinct types: horizontal axis wind turbine (HAWT) and vertical axis wind turbine (VAWT) [1] is generally acknowledged that the wind ...

4 Three-Dimensional Investigation of Dual Vertical Axis Wind Turbine This section presents 3D simulations of the D-VAWT at TSR  $\approx 4.5$  with the same geometrical parameters presented in ...

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