

Vertical axis wind turbine control (Technion)

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Dynamic stall on vertical axis wind turbines (VAWTs) causes a significant decrease in energy and possibly detrimental oscillatory loads. Our invention implements control of dynamic stall by steady or oscillatory perturbations. The invention can significantly improve energy production of VAWTs, decrease the damaging oscillatory loads, reduce working-point (blade-speed to wind-speed ratio), and self-start the turbine.

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