

Title: Wind turbine steering

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Utilizing advanced computational tools like OpenFAST and FAST.Farm, this study consisted of a dual analysis of single-turbine configurations and multi-turbine setups with varying ...

In this short video, we demonstrate the simulation of 12 wind turbines in a farm setting, highlighting the effectiveness of wake steering. The wake steering is enabled through a slight yaw ...

This study investigates the effect of wake steering control on the power generation and structural loads of floating wind turbines (FWTs), addressing the current knowledge gap in wake ...

Using the FLOW Redirection and Induction in Steady State (FLORIS) engineering wind farm control tool, we compare the performance of standard and preview-enabled baseline and wake-steering control ...

Wake interference between turbines in wind farms can lead to significant losses in the overall power output from farms. Wake steering is a strategy in which yaw is introduced in the ...

As an emerging innovation in wind plant controls, we focus on wake steering, which involves the strategic yawing of turbine rotors to deflect wakes, or regions of diminished wind velocity...

Wake effects within wind farms can significantly decrease the power production and increase the cost of electricity. Herein, we designed a wake steering control scheme to increase the ...

Wake steering is a wind farm control strategy wherein upstream turbines are misaligned with the wind direction to redirect their wakes away from downstream turbines, increasing overall wind plant power. ...

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