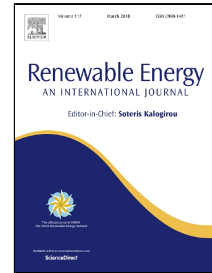


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Variable Gain Control Scheme of DFIG-based Wind Farm for Over-Frequency Support

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Highlight:

1. We focus the over-frequency disturbances in power systems with high penetration of renewable.
2. Wake interaction model of wind turbines is fully considered.
3. We prove front-row wind turbines may compromise more wind production than those back-row ones.
4. A variable droop gain scheme for a wind farm is proposed for system support.
5. The proposed scheme can harvest as much wind energy as possible while providing system support.

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