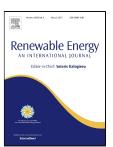
Accepted Manuscript

Low-frequency oscillations of wind power systems caused by doubly-fed induction generators



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PII: S0960-1481(16)31037-0

DOI: 10.1016/j.renene.2016.11.053

Reference: RENE 8327

To appear in: Renewable Energy

Received Date: 16 May 2016

Revised Date: 21 October 2016

Accepted Date: 25 November 2016

Please cite this article as: Shenghu Li, Low-frequency oscillations of wind power systems caused by doubly-fed induction generators, *Renewable Energy* (2016), doi: 10.1016/j.renene.2016.11.053

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Highlights:

- (i) Linearized state equations of the DFIGs with the stator voltage transient are newly proposed.
- (ii) The participation ratios are newly defined by the mechanical parameters of DFIGs to find the low-frequency oscillation caused by the DFIGs.
- (iii) The multi-step derivatives are proposed to derive the sensitivity of the oscillation caused by the DFIGs to the parameters of the DFIGs and the SGs.
- (iv) The sensitivity-based damping scheme to the low-frequency oscillation caused by the DFIGs is proposed and validated by changing the controllers' parameters.

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