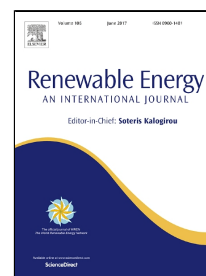


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An approach for efficient assessment of the performance of double auction competitive power market under variable imbalance cost due to high uncertain wind penetration



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Highlights

- An approach is proposed to assess the impacts of wind speed uncertainties in the wind integrated deregulated power market.
- Uncertain wind penetration makes imbalance cost and therefore affects the total profit of the system.
- Locational marginal pricing has been significantly improved after placement of wind generators.
- Study of wind speed uncertainty gives the power system more security.

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