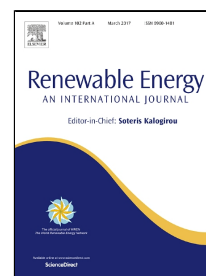


Accepted Manuscript

The Impact of Wind Farm Location and Control Strategy on Wind Generation Penetration and Market Prices

A.S.A. Awad, Mohamed Hassan Ahmed, T.H.M. EL-Fouly, M.M.A. Salama



PII: S0960-1481(16)31125-9

DOI: 10.1016/j.renene.2016.12.066

Reference: RENE 8403

To appear in: *Renewable Energy*

Received Date: 07 July 2016

Revised Date: 02 November 2016

Accepted Date: 26 December 2016

Please cite this article as: A.S.A. Awad, Mohamed Hassan Ahmed, T.H.M. EL-Fouly, M.M.A. Salama, The Impact of Wind Farm Location and Control Strategy on Wind Generation Penetration and Market Prices, *Renewable Energy* (2016), doi: 10.1016/j.renene.2016.12.066

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

The main contributions of the current research work are summarized as follows:

- Development of a novel bi-level optimization framework that is used to determine the optimal penetration level of wind farms in power systems.
- Studying the impact of wind farm control strategy on the optimal penetration level and operation of power systems.
- Presenting some practical cases studies for the allocation of wind farms in power systems.

Download English Version:

<https://daneshyari.com/en/article/4926404>

Download Persian Version:

<https://daneshyari.com/article/4926404>

[Daneshyari.com](https://daneshyari.com)