

Accepted Manuscript

A Power-Deficiency and Risk-Management Model for Wind Farm Micro-Siting Using Cyber Swarm Algorithm

Peng-Yeng Yin , Tsai-Hung Wu , Ping-Yi Hsu

PII: S0307-904X(15)00573-9
DOI: [10.1016/j.apm.2015.09.039](https://doi.org/10.1016/j.apm.2015.09.039)
Reference: APM 10738



To appear in: *Applied Mathematical Modelling*

Received date: 3 January 2015
Revised date: 11 June 2015
Accepted date: 23 September 2015

Please cite this article as: Peng-Yeng Yin , Tsai-Hung Wu , Ping-Yi Hsu , A Power-Deficiency and Risk-Management Model for Wind Farm Micro-Siting Using Cyber Swarm Algorithm, *Applied Mathematical Modelling* (2015), doi: [10.1016/j.apm.2015.09.039](https://doi.org/10.1016/j.apm.2015.09.039)

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

- A power-deficiency and risk-management (PDRM) model for micro-siting is proposed.
- PDRM mitigates power deficiency risk under wind uncertainty and predicted demand.
- PDRM provides decision alternatives through comprehensive risk analyses.
- An effective Cyber Swarm Algorithm (CSA) is developed to obtain PDRM solutions.
- CSA robustness is verified with convergence analysis and worst-case analysis.

Download English Version:

<https://daneshyari.com/en/article/10677614>

Download Persian Version:

<https://daneshyari.com/article/10677614>

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