Accepted Manuscript

Title: The environmental efficiency analysis of China's power generation sector based on game cross-efficiency approach

Authors: Bai-Chen Xie, Jie Gao, Shuang Zhang, Ruizhi Pang,

Zhong Xiang Zhang

PII: S0954-349X(18)30037-7

DOI: https://doi.org/10.1016/j.strueco.2018.05.002

Reference: STRECO 715

To appear in: Structural Change and Economic Dynamics

Received date: 6-2-2018 Revised date: 20-4-2018 Accepted date: 23-5-2018

Please cite this article as: Xie B-Chen, Gao J, Zhang S, Pang R, Zhang ZX, The environmental efficiency analysis of China's power generation sector based on game cross-efficiency approach, *Structural Change and Economic Dynamics* (2018), https://doi.org/10.1016/j.strueco.2018.05.002

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.

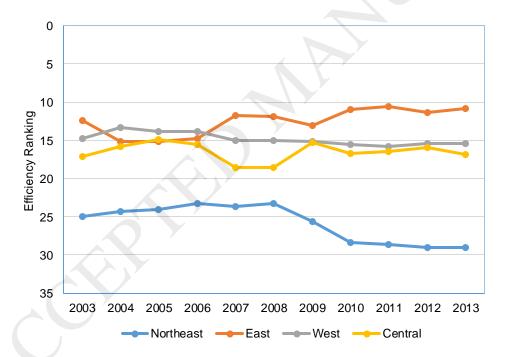


ACCEPTED MANUSCRIPT

The environmental efficiency analysis of China's power generation sector based on game cross-efficiency approach

Bai-Chen Xie^{a,b}, Jie Gao^a, Shuang Zhang^a, Ruizhi Pang^c, ZhongXiang Zhang^{d,e*}

Graphical Abstract



In order to reveal the environmental performance of China's generation sector under the competitive power market, this paper first uses the Game cross-efficiency to evaluate the environmental efficiency. Furthermore, it employs the system generalized method of moments to explore the determinants of environmental efficiency. The result indicate that the east perform the best almost all over the study period while the northeast perform the worst over the period.

^a College of Management and Economics, Tianjin University, Tianjin 30072, China

^b Center for Energy and Environmental Policy, Institute of Science and Development, Chinese Academy of Sciences, Beijing 100190, China

^c Institute of Industrial Economics, Nankai University, Tianjin 300071, China

^d Ma Yinchu School of Economics, Tianjin University, Tianjin 300072, China

^e China Academy of Energy, Environmental and Industrial Economics, Tianjin University, Tianjin 300072, China

^{*} Corresponding author: ZhongXiang Zhang, Founding Dean and Distinguished University Professor, Ma Yinchu School of Economics, Tianjin University, 92 Weijin Road, Tianjin 300072, China. *E-mail address:* ZhangZX@tju.edu.cn.

Download English Version:

https://daneshyari.com/en/article/10153834

Download Persian Version:

https://daneshyari.com/article/10153834

<u>Daneshyari.com</u>