

# Author's Accepted Manuscript

Low carbon Innovation and Practice in Caohejing  
High-Tech Industry Park of Shanghai

Beijia Huang, Ping Jiang, Shaoping Wang, Juan  
Zhao, Luchao Wu



[www.elsevier.com/locate/ijpe](http://www.elsevier.com/locate/ijpe)

PII: S0925-5273(16)00042-6  
DOI: <http://dx.doi.org/10.1016/j.ijpe.2016.02.006>  
Reference: PROECO6343

To appear in: *Intern. Journal of Production Economics*

Received date: 6 August 2015  
Revised date: 5 February 2016  
Accepted date: 9 February 2016

Cite this article as: Beijia Huang, Ping Jiang, Shaoping Wang, Juan Zhao and Luchao Wu, Low carbon Innovation and Practice in Caohejing High-Tech Industry Park of Shanghai, *Intern. Journal of Production Economics* <http://dx.doi.org/10.1016/j.ijpe.2016.02.006>

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 a review of the resulting galley proof before it is published in its final citable 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

# Low carbon Practice in Caohejing High-Tech Industrial Park of Shanghai, China

Beijia Huang<sup>1,2\*</sup>, Ping Jiang<sup>3</sup>, Shaoping Wang<sup>4</sup>, Juan Zhao<sup>1</sup>, Luchao Wu<sup>5</sup>

<sup>1</sup>College of Environment and Architecture, University of Shanghai for Science and Technology, 200093, Shanghai

<sup>2</sup>Department of Environment and Low Carbon Science, University of Shanghai for Science and Technology, 200093, Shanghai

<sup>3</sup>Department of Environmental Science & Engineering, Fudan University, Shanghai 200433, China

<sup>4</sup>Environmental Protection Agency of Yangpu District, 200090, Shanghai

<sup>5</sup>School of Resources and Environmental Engineering, East China University of Science and Technology, 200237, Shanghai

**Abstract:** Industrial parks are essential communities for promoting sustainable development because of their high energy consumption and Greenhouse Gas (GHG) emission. Existing researches concerning low carbon development of industrial park mainly focus on carbon accounting and carbon reduction strategies. Explanation of how the activities are designed and practiced according to characteristics of targeted industrial parks is limited. Thus, it is essential to have a close look at the low carbon innovation and practice in industrial park. In this study, low carbon practice in Caohejing Industrial Park is targeted as a case study. Low carbon development ideas and actions in the general scope and particular actions are respectively examined. In terms of the general scope, measures including optimization of the energy structure, transforming of infrastructure and auditing of energy consumption and GHG emission are found well practiced. As for the particular action, approaches of industry symbiosis and energy saving in the building sector are analyzed. The contribution of GHG emission reduction approaches in Caohejing Industrial Park is then evaluated. Our findings reveal that transparent accounting of GHG emissions is a basic work for carrying out low carbon measures. Energy structure optimization, infrastructure transforming are also essential steps in the general scope. The commonly applied industry symbiosis is found effective in promoting low carbon economy together with energy saving efforts in the building sector. The experience of regional industrial development in our research can offer reference for low carbon development of

---

\*Corresponding author. Email address: ywhbjia@gmail.com; Phone +86-13564538220

Download English Version:

<https://daneshyari.com/en/article/5079107>

Download Persian Version:

<https://daneshyari.com/article/5079107>

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