Accepted Manuscript

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PII: S0959-6526(18)31301-5

DOI: 10.1016/j.jclepro.2018.04.259

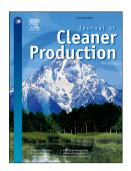
Reference: JCLP 12840

To appear in: Journal of Cleaner Production

Received Date: 4 January 2018
Revised Date: 27 April 2018
Accepted Date: 28 April 2018

Please cite this article as: Qi C, Wang Q, Ma X, Ye L, Yang D, Hong J, Inventory, environmental impact, and economic burden of GHG emission at the city level: Case study of Jinan, China, *Journal of Cleaner Production* (2018), doi: 10.1016/j.jclepro.2018.04.259.

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ACCEPTED MANUSCRIPT

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Congcong Qi^{a,1}, Qingsong Wang^{b,1}, Xiaotian Ma^a, Liping Ye^a, Donglu Yang, Jinglan

Hong^{a,*}

^aShandong Provincial Key Laboratory of Water Pollution Control and Resource

Reuse, School of Environmental Science and Engineering, Shandong University,

Jinan 250100, PR China.

^bSchool of Energy and Power Engineering, ShanDong University, Jinan 250061, PR

China.

¹These authors contributed equally to this work and should be considered co-first

authors.

Corresponding author: Jinglan Hong Tel/Fax: +86-(0531)88362328

E-mail address: hongjing@sdu.edu.cn

ABSTRACT

To understand greenhouse gas (GHG) emission at the city level and establish

effective measures to achieve carbon reduction, we conducted an inventory of GHG

emission and its environmental and economic impacts on Jinan City by using a hybrid

life cycle assessment (LCA) method. We quantified the GHG emission in Jinan in the

past 11 years and evaluated the spatial environmental potential of the energy

consumption and industrial process in 2015. The inventory included direct emission

of scope 1 (agriculture, land use, industry, municipal solid waste disposal, and energy

consumption), and indirect emission of scopes 2 and 3, including emissions from the

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