



17th International Input-Output Conference

TITLE: EVALUATION ON THE IMPACTS OF THE IMPLEMENTATION OF BUILDING ENERGY EFFICIENCY STANDARDS ON CHINESE ECONOMIC SYSTEM AND ENVIRONMENT

AUTHORS: Liu, Xiuli ; HEWINGS, GEOFFREY; YANG, CUIHONG; WANG, SHOUYANG

EMAIL: xiuli.liu@amss.ac.cn

COUNTRY: CHINA

KEYWORDS: INPUT-OUTPUT ANALYSIS ; DIRECT ECONOMIC IMPACT ; DIRECT ENVIRONMENTAL IMPACT ; INDIRECT ECONOMIC IMPACT ; BUILDING ENERGY EFFICIENCY

PAPER CONFERENCE CODE: 52

FULL PAPER IN CD?: YES

ABSTRACT:

In this paper, in contrast to the usual rough estimation, we present a model to simulate and evaluate the direct, indirect economic and environmental impacts of the implementation of building energy efficiency standards on Chinese economic system and environment by 12 indicators in two scenarios. 4 indicators are used to evaluate the direct economic impact degree, 5 indicators are used to evaluate the direct environmental impact degree, 3 indicators are used to evaluate the indirect economic impact degree of 34 sectors and the whole Chinese economic system. This research makes it possible to link developments in the implementation of building energy efficiency standards with environmental and economic structure change. The most important finding is that the implementation of building energy efficiency standards can reduce a large amount of pollutants emissions and increase the GDP at the same time.