

The research on energy efficiency and space-timely variation

BoanxuPeng^{1,*}, Xiaxhu Le²

¹*Wuhan University, Faculty of Sciences,
430071 Wuhan, China*

²*Guangdong University, Faculty of Geography,
518124Guangdong, China
mladen.kralj@uni-lj.si*

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Abstract

The Club of Rome released the report *The Limits to Growth* and western countries went through the oil crisis in the 1970s, energy issues have become a global focus. Energy efficiency is one of the most important issues concerned by scholars all over the world. Some scholars have constructed various evaluation models to score and compare energy efficiency across countries. However, limited research has focused the attention on regional difference from a geographical perspective. The authors believe that, although it is meaningful to compare the efficiency with other countries, it has little reference value to China in a sense that energy efficiency is a reflection of economic development stage which is difficult to change during a short period. China has its distinctive social, economic, and institutional system, with its own domestic macro-economic policies, fiscal and taxation policies, which to some extent make incomparability across countries in the globe. Study on the difference of energy efficiency across different regions in China has significant reference value for promoting energy efficiency under China's current economic and technological development conditions.

Keywords: energy efficiency; space-timely variation; China