Call for Papers:
Special Issue of Energy Efficiency

“Modeling economy-wide energy efficiency performance and beyond”

Full submission deadline: 31st January 2018

The journal Energy Efficiency covers wide-ranging aspects of energy efficiency in the residential, tertiary, industrial and transport sectors. Coverage includes a number of different topics and disciplines including energy efficiency policies at local, regional, national and international levels; long term impact of energy efficiency; technologies to improve energy efficiency; consumer behavior and the dynamics of consumption; socio-economic impacts of energy efficiency measures; energy efficiency as a virtual utility; transportation issues; building issues; energy management systems and energy services; energy planning and risk assessment; energy efficiency in developing countries and economies in transition; non-energy benefits of energy efficiency and opportunities for policy integration; energy education and training, and emerging technologies. The journal is pleased to announce a call for papers for a special issue on the topic of “Modeling economy-wide efficiency performance and beyond” to be guest-edited by Prof. Peng Zhou, Prof. Qunwei Wang and Prof. Dequn Zhou.

Modeling economy-wide energy efficiency performance has received continuous attention from academia, national energy agencies and international organizations for supporting policy analysis and making. Traditionally, energy intensity indicators such as energy-GDP ratio are widely used as proxies for energy efficiency. While energy intensity indicators are good efficiency measures at process/plant level, they cannot measure energy efficiency performance at sector and economy levels since their changes may be driven by non-efficiency factors, e.g. production structure and factor substitution. In the past decade, scholars have developed alternative systematic models for modeling economy-wide energy efficiency performance, which range from intensity type indicators to more complicated frontier models. With the methodological developments, a number of novel application studies at sectoral or economy-wide level have also been carried out which provide valuable inputs for supporting energy efficiency measures/policies in different countries.

The special issue aims to consolidate the past practices and provide a platform share the latest knowledge about economy-wide energy efficiency modeling and analysis. It
will feature high-quality papers that explicitly address the theoretical and practical aspects of economic-wide energy efficiency studies with a policy/management orientation.

The special issue include, but not limited to, the following themes:

- Energy intensity indicators
- Index decomposition analysis and energy efficiency
- Nonparametric frontier energy efficiency models
- Parametric frontier energy efficiency models
- Regression analysis for benchmarking energy efficiency performance
- Sectoral energy efficiency modeling
- Energy efficiency monitoring in development countries and economies in transition
- Assessment of energy efficiency policies/measures
- Energy congestion
- Other topics relevant to economy-wide energy efficiency modeling and policy

**Submission and guidelines**

This Special Issue solicits original work that must not be under consideration for publication in any other journal and copyrighted conference proceedings/books. Submitted manuscript needs to make an explicit statement of its relevance to the Special Issue. All submitted contributions must be written in English and follow the “Instructions for Authors” of Energy Efficiency (see http://www.springer.com/engineering/journal/12053).

While it is not compulsory, authors are encouraged to send an abstract to the guest editors (via meesiee@163.com) for confirmation on the suitability to the special issue. All manuscripts and any supplementary material must be submitted through the Springer Editorial Manager system (https://www.editorialmanager.com/enef/default.aspx). The submissions will be handled immediately once they are received by the journal.

**Submission deadline**

31st January 2018