



## Ke FAN

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Before joining the Department of Building and Real Estate (BRE) of The Hong Kong Polytechnic University in Dec. 2014 as a PhD student, I worked as a Teaching Assistant in BRE, where I assisted in the teaching of Research Methods for master students, and doing research project “Sustainable Planning Criteria for Age-friendly Precincts in the New Development areas of Hong Kong”. I am also alumni of The Ronald Coase Institute (2016), which is advised by the Nobel Prize winner Ronald Coase (1991). My research interests mainly focus on the transaction cost economics and the cost-benefit analysis of environmental policy, especially the urban planning policy and green building promotion.

### Supervisor

Professor Edwin Chan

### Area of Research

Green Building Incentives, New Institutional Economics, Urban Planning

### Research Scope

The current study is focused on costs and benefits for implementing green building incentive schemes, with transaction cost consideration. Concisely, the study is mainly concentrated on the incentive scheme of Gross Floor Area Concession that is a popular instrument to promote green building in leading countries in the world. Other incentive schemes for green building promotion will also be explored to better understand the design of incentive scheme. The ultimate aim of the study is to identify the design criteria of a fair and efficient incentive scheme and provide policy recommendations.

### Research Methodology

Literature review will be conducted further to review of international best practice of incentive schemes for GB promotion. It helps to establish an analytical framework for understanding the concerns and expectations of stakeholders to the GB investment, and to establish an analytical framework for analyzing the cost and benefits of the identified incentive scheme, “granting GFA concessions” for GB, with consideration of transaction costs (TCs) during implementation process of the schemes. It aims to identify a list of benefits and costs of the incentive schemes, and a list of stakeholders. Upon identifying the important benefits and costs, the next step is to evaluate the incentive schemes using the Analytical Hierarchy Process (AHP) method.

### Prizes and Awards

National Scholarship, China

## Academic Attachment and Exchange

The Ronald Coase Institute, May 2016

## Publication List

1. Qian, Q. K., Fan, K., Chan, E. H. W. (2016). Regulatory incentives for green buildings: gross floor area concessions. *Building Research & Information*, Vol. 5, No. 6, 1–23. Available at <http://www.tandfonline.com/doi/abs/10.1080/09613218.2016.1181874#.V1EZJed94fE>
2. Fan, K., Qian, Q. K., Chan, E. H. W. (2016). Transaction costs (TCs) in building regulations and control for green buildings: case study of Hong Kong. The 20th CIB World Building Congress 30th May to 3rd June, 2016, Tampere, Finland.
3. Fan, K., Qian, Q. K., Chan, E. H. W. (2015). Floor area concession incentives as planning instruments to promote green building: A critical review of International practices. Smart and Sustainable Built Environments (SASBE) conference 9– 11 Dec, 2015, Pretoria, South Africa.

## Hobbies

Dancing, yoga, hiking, reading books

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