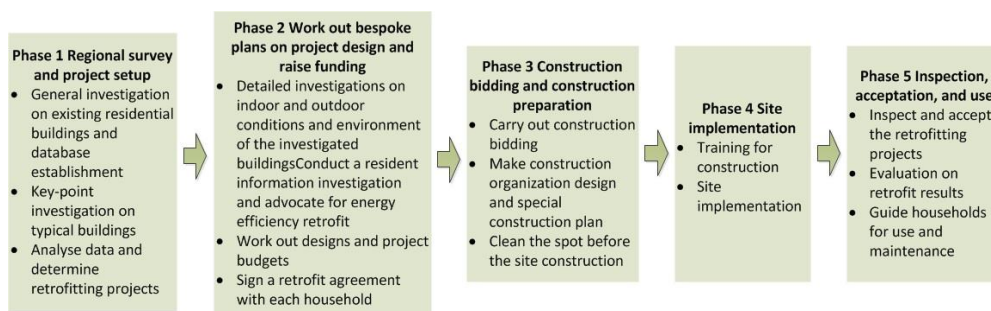


Mitigating the risks affecting the implementation of housing energy retrofitting in China

Keywords: housing energy retrofitting, risks, risk mitigation, transaction costs

OTB Department / Housing Quality and Process Innovation

Area of Research: Energy Efficiency Retrofitting



Research Summary: More and more attention has been paid to HER by the governments all over the world in order to reduce the energy consumption and emissions. Although China has made a lot of efforts to promote HER and made some achievements, there is still a slow progress of retrofitting, especially in the hot summer and cold winter (HSCW) zone. Because of the particularity of China on the aspects of housing system, HER projects in China are susceptible to many risks (e.g. organizational and financial risks). These risks have serious impacts on the smooth implementation of HER in China. This study aims to identify and analyze these risks, and help develop more effective policies for risk mitigation.

Research Methodology: This study will be conducted in the order of risk identification, risk assessment, and risk mitigation. On this basis of literature review and case study, this study will build a framework for risk identification. Then interviews will be conducted to identify the most important stakeholders for risk analysis. A risk assessment model will be also built to find out the critical risks. Finally, this study will find out the barriers to risk mitigation based on transaction costs theory and propose policy suggestions to overcome these barriers.

Key Publications:

- Jia, L., Qian, K., Meijer, F.M. and Visscher, H.J., 2017. Risk analysis on housing energy retrofitting in China with transaction costs considerations. ENHR 2017 Conference, 4-6 September 2017, Tirana (Albania).



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Main question: How to mitigate effectively the risks affecting the smooth implementation of HER in China?

Deliverables: Four peer-reviewed articles. Three are on risk identification, risk assessment and risk mitigation. The other one is on stakeholders' influence.

Link:
www.otb.bk.tudelft.nl

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