



Architectural Engineering and Design Management >

Volume 8, 2012 - Issue 2

1,518 46

Views CrossRef citations to date

0

Altmetric

ARTICLE

# Managing risks in green building supply chain

Patrick X. W. Zou & Paul Couani

Pages 143-158 | Published online: 26 Mar 2012

Cite this article <https://doi.org/10.1080/17452007.2012.659507>

Sample our  
Built Environment  
Journals



>> [Sign in here](#) to start your access  
to the latest two volumes for 14 days

Full Article

Figures & data

References

Citations

Metrics

Reprints & Permissions

Read this article

Share

## Abstract

The call for green building development provides the construction supply chain with new business opportunities. However, there are significant risks associated with such opportunities. This research aims at understanding the major risks and their distributions in the supply chain and developing strategies to manage these risks. 250 sets of survey questionnaires were set out to selected industry professionals in Australia and 93 sets were returned with 91 sets valid. The results show that the risks in green building development vary and are unequally distributed throughout the supply chain, but there are common risks with 'lack of commitment in the supply chain to go green' and 'higher investment costs' as the most important risks overall. The results also show that considerable improvement could be made to green building performance through research and development, training and education, supply chain co-ordination, knowledge and information sharing, experience accumulation and

technology application. The research finding suggests that members in the supply chain: record green-related information in a central database; utilize expertise of green building professionals; clearly communicate green building objectives and responsibilities to all supply chain members; invest in green building training and education regarding responsibilities, benefits, technology and solutions; and team up with suppliers and manufacturers for developing green-complied products and materials.

Keywords:

Green building development

risk

risk management

supply chain

## Related research

People also read

Recommended articles

Cited by  
46

## Information for

Authors

R&D professionals

Editors

Librarians

Societies

## Opportunities

Reprints and e-prints

Advertising solutions

Accelerated publication

Corporate access solutions

## Open access

Overview

Open journals

Open Select

Dove Medical Press

F1000Research

## Help and information

Help and contact

Newsroom

All journals

Books

## Keep up to date

Register to receive personalised research and resources  
by email

 Sign me up

  

  

Copyright © 2026 Informa UK Limited Privacy policy Cookies Terms & conditions

Accessibility



Registered in England & Wales No. 01072954  
5 Howick Place | London | SW1P 1WG