



1,520

Views

46

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  
Engineering & Technology  
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

 Taylor and Francis  
Group