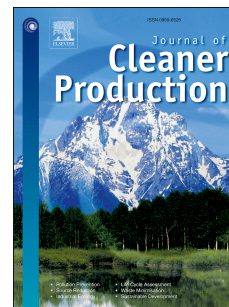


Accepted Manuscript

Influences of barriers, drivers, and promotion strategies on green building technologies adoption in developing countries: The Ghanaian case

Amos Darko, Albert Ping Chuen Chan, Yang Yang, Ming Shan, Bao-Jie He, Zhonghua Gou



PII: S0959-6526(18)32307-2

DOI: [10.1016/j.jclepro.2018.07.318](https://doi.org/10.1016/j.jclepro.2018.07.318)

Reference: JCLP 13772

To appear in: *Journal of Cleaner Production*

Received Date: 22 December 2017

Revised Date: 29 July 2018

Accepted Date: 30 July 2018

Please cite this article as: Darko A, Chan APC, Yang Y, Shan M, He B-J, Gou Z, Influences of barriers, drivers, and promotion strategies on green building technologies adoption in developing countries: The Ghanaian case, *Journal of Cleaner Production* (2018), doi: 10.1016/j.jclepro.2018.07.318.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

1 **Influences of barriers, drivers, and promotion strategies on green building technologies**
2 **adoption in developing countries: The Ghanaian case**

3 Amos Darko ^{a,*}, Albert Ping Chuen Chan ^a, Yang Yang ^a, Ming Shan ^b, Bao-Jie He ^c,

4 Zhonghua Gou ^d

5 ^aDepartment of Building and Real Estate, The Hong Kong Polytechnic University, 11 Yuk
6 Choi Rd, Hung Hom, Kowloon, Hong Kong

7 ^bSchool of Civil and Engineering, Central South University, 68 South Shaoshan Road,
8 410075, China

9 ^cFaculty of Built Environment, University of New South Wales, Kensington 2052, NSW,
10 Australia

11 ^dCities Research Institute, School of Environment, Griffith University, Gold Coast, QLD
12 4215, Australia

13 **Abstract**

14 Adopting green building technologies (GBTs) is critical to implementing sustainability within
15 the construction industry. Many barriers, drivers, and promotion strategies influence the
16 GBTs adoption. Appreciating these barriers, drivers, and promotion strategies and how they
17 influence GBTs adoption is core to the successful promotion of GBTs adoption. However,
18 there appears to be no studies developing quantitative models to explain how various types of
19 barriers, drivers, and promotion strategies influence GBTs adoption, especially in developing
20 countries such as Ghana. This research aims to investigate and model the influences of
21 various types of barriers, drivers, and promotion strategies on GBTs adoption in Ghana. Data
22 were collected through a questionnaire survey with 43 professionals with green building
23 experience. Partial least squares structural equation modeling (PLS-SEM) was used to

* Corresponding author.

E-mail addresses: amos.darko@connect.polyu.hk (A. Darko), albert.chan@polyu.edu.hk (A.P.C. Chan),
jackie.yyang@polyu.edu.hk (Y. Yang), ming.shan@csu.edu.cn (M. Shan), baojie.unsw@gmail.com (B.J. He),
z.gou@griffith.edu.au; gouzhonghua@gmail.com (Z. Gou).

Download English Version:

<https://daneshyari.com/en/article/8093292>

Download Persian Version:

<https://daneshyari.com/article/8093292>

[Daneshyari.com](https://daneshyari.com)