Evaluating the Potential Business Benefits of Ecodesign Implementation: A Logic Model Approach

The business benefits attained from ecodesign programs in manufacturing companies have been regularly documented by several studies from both the academic and corporate spheres. However, there are still significant challenges for adopting ecodesign, especially regarding the evaluation of these potential business benefits prior to the actual ecodesign implementation. To address such gap, this study proposes an exploratory and theory-driven framework based on logic models to support the development of business cases for ecodesign implementation. The objective is to offer an outlook into how ecodesign implementation can potentially affect key corporate performance outcomes. This paper is based on a three-stage research methodology with six steps. Two full systematic literature reviews were performed, along with two thematic analyses and a grounded theory approach with the aim of developing the business case framework, which was then evaluated by seven industry experts. This research contributes to the literature of ecodesign especially by laying out an ecodesign-instantiated logic model, which is readily available to be adapted and customized for further test and use in practice. Discussions on the usefulness and applicability of the framework and directions for future research are presented.

General information
Publication status: Published
Organisations: Department of Mechanical Engineering, Engineering Design and Product Development, Technical University of Denmark
Corresponding author: Rodrigues, V. P.
Contributors: Rodrigues, V. P., Pigosso, D. C. A., W. Andersen, J., McAloone, T. C.
Number of pages: 26
Publication date: 2018
Peer-reviewed: Yes

Publication Information
Journal: Sustainability
Volume: 10
Issue number: 6
Article number: 2011
ISSN (Print): 2071-1050
Ratings:
BFI (2018): BFI-level 1
Scopus rating (2018): CiteScore 3.01 SJR 0.549 SNIP 1.169
Web of Science (2018): Impact factor 2.592
Web of Science (2018): Indexed yes
Original language: English
Electronic versions:
sustainability_10_02011.pdf
DOIs:
10.3390/su10062011

Bibliographical note
This is an open access article distributed under the Creative Commons Attribution License which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited. (CC BY 4.0).
Source: FindIt
Source ID: 2435581529
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review