Ecodesign Implementation and LCA

Ecodesign Implementation and LCA
Ecodesign is a proactive product development approach that integrates environmental considerations into the early stages of the product development process so to improve the environmental performance of products. In this chapter, the ecodesign concept will be discussed, in terms of its implementation into manufacturing companies. Existing methods and tools for ecodesign implementation will be described, focusing on a multifaceted approach to environmental improvement through product development. Additionally, the use of LCA in an ecodesign implementation context will be further described in terms of the challenges and opportunities, together with the discussion of a selection of simplified LCA tools. Finally, a seven-step approach for ecodesign implementation which has been applied by several companies will be described.

General information
State: Published
Organisations: Department of Mechanical Engineering, Engineering Design and Product Development
Contributors: McAloone, T. C., Pigosso, D. C. A.
Pages: 545-576
Publication date: 2018

Host publication information
Title of host publication: Life Cycle Assessment: Theory and Practice : Theory and Practice
Publisher: Springer
Editors: Z. Hauschild, M., K. Rosenbaum, R., Irving Olsen , S.
ISBN (Print): 978-3-319-56474-6
ISBN (Electronic): 978-3-319-56475-3
DOIs: 10.1007/978-3-319-56475-3_23
Source: FindIt
Source-ID: 2373522907
Research output: Education - peer-review › Book chapter – Annual report year: 2018