Integrated Energy Design and Life Cycle Assessment in Design Processes for Refurbishment - DTU Orbit (11/08/2019)

Integrated Energy Design and Life Cycle Assessment in Design Processes for Refurbishment

This paper investigates the state-of-art for using the DGNB Sustainability Rating System, Life Cycle Assessment, and Life Cycle Costing in the Danish building industry, and how well this use is aligned with the Integrated Energy Design process in refurbishment projects. An optimal method for including all aspects of sustainability in the design process is developed based on a literature review, interviews of professionals, and a mapping of design processes at a Danish architecture firm that specializes in sustainable architecture. Finally, the paper reflects upon the final design process presented in this work, considers what is needed to implement this design process, and envisages the impact of this practice on the building industry.

General information
Publication status: Published
Organisations: Department of Civil Engineering, Section for Building Design, Section for Building Energy
Contributors: Landgren, M., Jensen, L. B.
Number of pages: 9
Publication date: 2017
Peer-reviewed: Yes

Publication Information
Journal: A S H R A E Transactions
Article number: LB-17-C043
ISSN (Print): 0001-2505
Ratings:
BFI (2017): BFI-level 1
Scopus rating (2017): CiteScore 0.53 SJR 0.512 SNIP 0.488
Original language: English
Source: PublicationPreSubmission
Source-ID: 127782435
Research output: Contribution to journal › Conference article – Annual report year: 2017 › Research › peer-review