

A Systematic Review on Energy Performance Gap in Buildings

Authors : Derya Yilmaz, Ali Murat Tanyer, Irem Dikmen Toker

Abstract : There are many studies addressing the discrepancy between the planned and actual performance of buildings, which is defined as the energy performance gap. The difference between expected and actual project results usually depends on risky events and how these risks are managed throughout the project. This study presents a systematic review of the literature about the energy performance gap in buildings. First of all, a brief history and definitions of the energy performance gap are given. The initial search string is applied on Scopus and Web of Science databases. Research activities in years, main research interests, the co-occurrence of keywords based on average publication year are given. Scientometric analyses are conducted using Vosviewer. After the review, the papers are grouped to thematic relevance. This research will create a basis for analyzing the research focus, methods, limitations, and research gaps of key papers in the field.

Keywords : energy performance gap, discrepancy, energy efficient buildings, green buildings

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