

Development of International Green Building Rating Systems And Local Implementation

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Abstract:

The global movement toward sustainable development has driven the advancement of Green Building rating systems, with international standards like LEED, BREEAM, and CASBEE establishing benchmarks for eco-friendly construction practices. In Egypt, the Green Pyramid Rating System (GPRS), launched in 2009 by the Housing and Building National Research Center, aims to promote sustainable building practices by increasing awareness of the importance of green architecture within Egypt's environmental and urban contexts.

However, the research problem lies in the limited implementation of green architecture in Egypt, which has not yet played a significant role in mitigating the country's environmental challenges. This study adopts an inductive and analytical approach, drawing on the sustainability and green architecture experiences of other nations. It does so by reviewing and analyzing the latest versions of these global practices. Additionally, it employs the SWOT environmental analysis to assess the challenges encountered in the United Arab Emirates, particularly in transitioning from The research findings highlight valuable lessons learned from other countries' experiences, offering recommendations to inform future development of green architecture practices in Egypt.

Keywords:

Sustainability; Green Building; Environment

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