

Policies Promoting the Development of Green Buildings in Sub-Saharan Africa: A South African Case-Study

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Abstract : Contemporary building methods typically pay little attention to the built environment's greater economic, environmental, or social impacts or energy efficiency. Green construction aims to sever ties with these conventions. In order to provide better living and working conditions and lessen environmental consequences, green building today combines numerous building design, construction, and operation and maintenance approaches. As one of Sub-Saharan Africa's most industrialized nations, South Africa has a good number of green building projects. Therefore, this study examines the elements impacting the adoption of green buildings and regulations created to encourage the growth of green buildings using South Africa as a case study. The study has a survey-style design. A total of one hundred fifty (150) questionnaires were distributed to professionals in the construction industry in South Africa, of which one hundred and twenty-four (128) were returned and judged appropriate for investigation. The gathered data was examined using percentage, mean item scores, standard deviation, and Kruskal-Wallis. The findings show that cost and market circumstances are the two main elements impacting the adoption of green construction, while leadership advice is the most important policy. The study concluded that in order to encourage the construction of green buildings, additional Sub-Saharan nations should adopt these suggested policies.

Keywords : green building, Sub-Saharan Africa, building design, environmental conditions

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