



Eco-Friendly Materials in Low-Income Housing: Adoption Rates and Energy Efficiency in Nigerian Urban Centers

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Published: 18 October 2000 | **Received:** 08 August 2000 | **Accepted:** 17 September 2000

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DOI: [10.5281/zenodo.18711697](https://doi.org/10.5281/zenodo.18711697)

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Abstract

Low-income housing developers in Nigerian urban centers face challenges in meeting energy efficiency standards while maintaining affordability. A mixed-methods approach combining surveys with case studies was employed to gather data from developers and analyse existing literature. Initial survey results indicate a significant increase (54%) in eco-friendly material adoption among surveyed developers over the past five years, correlating with improvements in energy efficiency by an average of 20%. While initial findings suggest positive trends, more comprehensive data collection is needed to validate these observations and provide robust conclusions. Further research should be conducted to explore long-term impacts on both material durability and economic viability for low-income housing developers in Nigeria. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African Geography, Low-Income Housing, Sustainable Materials, Energy Efficiency, Methodology, Development Economics, Microfinance*

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