



Efficiency and Demand-Side Management Strategies in Urban Ghana 2002

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Abstract

Urban energy efficiency measures are crucial for sustainable development in Ghana's cities. This survey explores strategies that reduce energy consumption and associated costs. A mixed-methods approach was employed, including surveys, interviews, and case study analyses. Data were collected from across four major cities in Ghana. The survey revealed that over 75% of surveyed households reported savings of up to 20% on their energy bills after implementing DSM measures such as insulation and improved lighting. While significant progress has been made, there is room for improvement, particularly in terms of policy enforcement and public awareness campaigns. Policy makers should prioritise the implementation of standardised energy efficiency standards and invest in education programmes to enhance consumer adoption of sustainable practices. The empirical specification follows $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, urbanization, energy efficiency, demand-side management, renewable integration, climate change mitigation, participatory evaluation*

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