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Efficient Lighting Solutions in Urban Senegal: Reducing Energy Consumption and Savings Analysis

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Abstract

Urban Senegal faces significant energy challenges due to limited access to efficient lighting solutions among low-income households, leading to inefficient energy consumption and high costs. This study employed a mixed-methods approach combining surveys with case studies, focusing on low-income households in selected urban areas to assess the impact of introduced lighting technologies. The analysis revealed that the introduction of LED bulbs led to an average reduction in electricity consumption by 30% and savings of approximately $25 per household annually. The deployment of efficient lighting solutions has substantial potential for reducing energy costs and improving living standards in urban Senegal, with significant impacts on both households and public finances. Policy recommendations include integrating these technologies into existing subsidy programmes and providing incentives to promote wider adoption among low-income households.

Keywords: *Sub-Saharan, African, Socioeconomic, Policy, Energy, Housing, Indicators*

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