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Renewable Energy Microgrids and School Attendance Among Adolescent Migrants in Kenya,

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Abstract

This study examines the impact of renewable energy microgrids on school attendance among adolescent migrants in Kenya. A comparative study approach was used, analysing data from two distinct regions where renewable energy microgrids were introduced and evaluated against areas without such systems. The research utilised surveys and interviews to collect primary data from adolescents and educators, providing insights into the impact of energy access on educational outcomes. The analysis revealed a statistically significant increase in school attendance rates among adolescent migrants who lived near renewable energy microgrids compared to those in non-microgrid regions ($p < 0.05$). This study demonstrates that the introduction of renewable energy microgrids can substantially improve educational participation, particularly among adolescent migrant populations. Policy makers should consider integrating renewable energy projects into school infrastructure to enhance educational opportunities for vulnerable youth groups in Kenya.

Keywords: *Kenya, Microgrids, Renewable Energy, Adolescent Migration, School Attendance, Development Economics, Comparative Analysis*

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