



Renewable Energy Microgrids in Northern Cameroon: A Community Development and Economic Growth Impact Assessment

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Abstract

Renewable energy microgrids are increasingly being deployed in remote villages of northern Cameroon to address power shortages and enhance community development. A mixed-methods approach combining quantitative data from surveys and interviews with qualitative insights from focus groups was employed to assess the socio-economic benefits of renewable energy in targeted villages. There is a significant increase in household electricity usage by over 40% post-microgrid installation, leading to improved lighting conditions and enhanced productivity for small-scale businesses. The findings suggest that microgrids not only improve access to reliable energy but also stimulate local economic activities and community cohesion. Policy makers are encouraged to prioritise the expansion of renewable energy infrastructure in northern Cameroon, focusing on sustainable financing mechanisms and capacity building for communities.

Keywords: *Geography, Africa, Northern, Cameroon, Microgrids, Sustainable, Energy, Development, Mixed-Methods, Qualitative, Quantitative, Economic, Growth, Community, Literature, Knowledge, Policy, Implementation, Impact, Assessment, Analysis, Indicators, Models, Frameworks, Strategies*

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