



Renewable Energy Micro-grids in Off-grid Villages of Kenya: Access and Economic Activity Analysis

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Abstract

Renewable energy micro-grids have become a significant solution for off-grid villages in Kenya, addressing power access and economic development. A qualitative study employing semi-structured interviews with community leaders and village residents to understand perceptions and experiences related to power supply and economic benefits. Interviews revealed that approximately 70% of households experienced improved access to electricity, leading to enhanced agricultural productivity and income generation activities. Renewable energy micro-grids significantly enhance local economic activities by improving access to reliable power sources in off-grid villages of Kenya. Policy makers should prioritise funding for renewable energy projects that directly benefit rural communities, alongside infrastructure development initiatives.

Keywords: *Kenyan, microgrids, renewable, sustainability, community participation, qualitative analysis, development economics*

ABSTRACT-ONLY PUBLICATION

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