African Environmental Contamination (Environmental Science)

Economic Impact and Social Support Mechanisms Analysis in Renewable Energy Microgrids for Mozambique Villages: A Theoretical Framework

Mabumba Simango[1,2], **Cunene Sibanda**[3], **Chigurua Mavuto**[4,5], **Namakula Zulu**[5,6]

[1] Instituto Nacional de Investigação Agrária (INIA)

[2] Pedagogical University of Mozambique (UP)

[3] Department of Research, Lúrio University

[4] Catholic University of Mozambique

[5] Lúrio University

[6] Department of Advanced Studies, Catholic University of Mozambique

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Correspondence: msimango@hotmail.com

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Author notes

Mabumba Simango is affiliated with Instituto Nacional de Investigação Agrária (INIA) and focuses on Environmental Science research in Africa.

Cunene Sibanda is affiliated with Department of Research, Lúrio University and focuses on Environmental Science research in Africa.

Chigurua Mavuto is affiliated with Catholic University of Mozambique and focuses on Environmental Science research in Africa.

Namakula Zulu is affiliated with Department of Advanced Studies, Catholic University of Mozambique and focuses on Environmental Science research in Africa.

Abstract

Renewable energy microgrids are increasingly being considered as a sustainable solution for electrification in rural areas of developing countries like Mozambique. A qualitative analysis will be employed to explore the socio-economic context and technological feasibility of implementing renewable energy solutions in these communities. This study aims to provide insights into the optimal design and support mechanisms for renewable energy microgrids in Mozambique villages, aiming to enhance energy access while addressing socio-economic disparities. Policy makers should prioritise stakeholder involvement and cost reduction strategies to facilitate the adoption of renewable energy solutions in rural areas. The empirical specification follows $Y = \vec{\beta_{0+\beta}} \, p \, X + varepsilon$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, African, SocialCapital, Microfinance, Ecopreneurship, GreenEconomy, VillageDevelopment*

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