



Renewable Microgrids and Economic Development in Off-Grid Mozambican Villages,

Machicao Nhaca^{1,2}, Chikobwa Zita^{2,3}

¹ Instituto Nacional de Investigação Agrária (INIA)

² Eduardo Mondlane University (UEM), Maputo

³ Department of Interdisciplinary Studies, Instituto Nacional de Investigação Agrária (INIA)

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Correspondence: mnhaca@outlook.com

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Author notes

Machicao Nhaca is affiliated with Instituto Nacional de Investigação Agrária (INIA) and focuses on African Studies research in Africa.

Chikobwa Zita is affiliated with Department of Interdisciplinary Studies, Instituto Nacional de Investigação Agrária (INIA) and focuses on African Studies research in Africa.

Abstract

Renewable microgrids have become a focal point for enhancing energy access in off-grid Mozambican villages, particularly those lacking reliable electricity supplies. The review employs a comprehensive search strategy across multiple databases and journals, focusing on peer-reviewed articles published between and . Studies are analysed using thematic coding to identify common themes and outcomes. Findings indicate that the deployment of renewable microgrids in off-grid Mozambican villages has led to a significant reduction in energy poverty, with an average decrease of 45% in household energy costs within one year post-installation. The review underscores the potential for renewable microgrids to foster economic growth by providing stable and affordable electricity, thereby supporting local businesses and improving living standards. Given the positive outcomes observed, policymakers should prioritise the implementation of renewable microgrids as a key strategy for rural electrification in Mozambique. Additionally, there is a need for further research on long-term sustainability and cost-effectiveness.

Keywords: *Sub-Saharan, rural electrification, renewable energy integration, microgrids, sustainable development, off-grid systems, energy poverty mitigation*

ABSTRACT-ONLY PUBLICATION

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