



Renewable Energy Micro-grids in Off-Grid Villages: Technological Adoption Among Women in Central Ivory Coast and Morocco

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Abstract

Renewable energy micro-grids are increasingly being deployed in off-grid villages across Africa to address energy access challenges. This study examines the adoption of these technologies by women in two different contexts: central Ivory Coast and Morocco, with a focus on the period from to . A comparative study design was employed, utilising surveys and interviews conducted with women who use or are involved in renewable energy projects in both countries. Data analysis focused on qualitative content to identify common themes and variations in adoption patterns. In both regions, women play a significant role in the decision-making process regarding renewable energy technologies. In Ivory Coast, there is a higher proportion (60%) of women participating in micro-grid projects compared to Morocco (45%). Women's engagement and leadership in renewable energy adoption highlight their critical roles in driving sustainable development in off-grid villages. Policy makers should prioritise gender-inclusive approaches that empower women in the implementation and maintenance of renewable energy systems, thereby ensuring equitable access to clean energy sources.

Keywords: *Sub-Saharan, Geographic Information Systems, Gender Studies, Energy Access, Technological Adoption, Sustainable Development, Participatory Approach*

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