



Solar Energy Adoption by Smallholder Farmers in Mozambique's Lowlands: An Exploratory Study

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Abstract

Solar energy adoption by smallholder farmers in Mozambique's lowlands is a critical area for sustainable development and climate change mitigation. A mixed-methods approach was employed, including semi-structured interviews and focus group discussions with a sample of 50 smallholder farmers in selected districts of Mozambique's lowlands. Findings suggest that affordability remains a significant barrier to solar energy adoption, particularly for farmers who rely on subsistence farming and have limited financial resources. Despite the challenges, there is potential for increased solar energy use among smallholder farmers if targeted interventions are implemented. Policy makers should consider subsidizing solar energy systems or providing microfinance options to make them more accessible to low-income farmers.

Keywords: *Geographic, Sub-Saharan, Rural Development, Energy Access, Photovoltaics, Sustainability, Case Study*

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