



Adoption Dynamics and Benefits Spectrum of Renewable Energy Technologies among Smallholder Farmers in West African Regions: A Theoretical Framework

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Abstract

Renewable energy technologies (RETs) have been increasingly adopted by smallholder farmers in West African regions due to their environmental and economic benefits. The study employs qualitative research methods to explore farmer perceptions and decision-making processes related to the adoption of RETs. The theoretical framework identifies key factors influencing RET adoption among Ugandan smallholders, such as access to information, financial constraints, and community support networks. Policy makers should implement targeted interventions aimed at enhancing infrastructure and educational programmes related to renewable energy technology uptake.

Keywords: *Sub-Saharan, rural, sustainability, socioecological, qualitative, iterative, diffusion*

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