



Biomass Utilization and Transition Pathways in Ugandan Energy Sectors,

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Abstract

Uganda is transitioning from a predominantly fossil fuel-based energy sector to one that includes more renewable and traditional sources. A mixed-method study combining interviews, surveys, and statistical analysis of available data from to . Biomass accounted for approximately 35% of total primary energy supply in Ugandan rural areas, with significant disparities between urban and rural sectors. Traditional biomass plays a crucial role in meeting energy needs in Uganda, particularly in rural settings. Transition pathways should prioritise enhancing access to cleaner biomass technologies. Promote subsidies for improved cookstoves; invest in research on bioenergy crops; integrate traditional biomass into national renewable energy plans. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Uganda, Biomass, Renewable Energy, Sustainable Development, Traditional Fuels, Community Participation, Case Study*

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