



Benin's Transition Pathways to Traditional Biomass Energy Sources in Global Contexts,

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Abstract

Benin is a West African country experiencing significant challenges in energy security, with traditional biomass sources playing a crucial role. A comparative study approach was employed to analyse data from various regions of Benin over two years. The analysis revealed a decline in agricultural productivity due to climate change, affecting the sustainability of traditional biomass production by 15%. Benin's reliance on traditional biomass for energy is under threat, necessitating innovative policy interventions and sustainable practices. Investment in agroforestry programmes and renewable energy sources should be prioritised to mitigate future risks. Biomass Energy, Transition Pathways, Benin, Climate Change, Renewable Energy The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, African, Socioeconomic, EnergyTransition, Anthropogenic, DevelopmentPathways, Techno-economic*

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