



Quantifying the Impact of Clean Cooking Stoves on Ugandan Women Farmers' Sustainability Efforts Through an Environmental Economic Lens

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Published: 12 December 2002 | **Received:** 27 September 2002 | **Accepted:** 29 October 2002

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DOI: [10.5281/zenodo.18754017](https://doi.org/10.5281/zenodo.18754017)

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Abstract

Ugandan women farmers are pivotal in agricultural sustainability efforts but face significant challenges related to household energy use and environmental impact. This theoretical framework article employs a mixed-methods approach combining literature review with econometric modelling. The econometric model will include parameters for household income, access to clean energy technologies, and environmental metrics such as carbon emissions reductions. This theoretical framework provides foundational insights for policymakers and practitioners aiming to integrate clean cooking technologies into agricultural sustainability strategies in Uganda. Further empirical research is recommended to validate the model's predictive power and explore its applicability across different regions and socio-economic contexts. The empirical specification follows $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African Geography, Sustainable Development, Environmental Economics, Gender Studies, Carbon Footprint, Intergenerational Equity, Agent-Based Modelling*

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