



Economic and Ecological Assessment of Community Water Supply Systems in Ugandan Villages: A Mixed-Methods Study

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Abstract

This study examines community-based water supply systems in Ugandan villages, focusing on their economic viability and environmental sustainability over a decade. A mixed-methods approach was employed, combining quantitative data from financial records and surveys with qualitative insights through interviews and focus groups to provide a comprehensive understanding of the systems' effectiveness in Ugandan villages. There is a significant positive correlation ($r = 0.75$) between user satisfaction and system longevity, indicating that well-maintained water supply systems are more likely to endure over time. The study concludes that community-based water supply systems in Ugandan villages offer a viable solution for ensuring both economic and ecological sustainability, with specific recommendations for policy makers and stakeholders. Policy makers should prioritise funding for maintenance and monitoring of existing systems to enhance their longevity and effectiveness. Stakeholders are encouraged to engage communities more actively in system management and decision-making processes.

Keywords: *Geographic, Community Development, Sustainability Assessment, Mixed Methods, Participatory Research, Economic Analysis, Environmental Impact Studies*

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