



Adoption Rates and Performance Outcomes of Solar Cookers among Urban Youth in Nairobi Slums,

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Abstract

Urban youth in Nairobi slums are exploring alternative cooking methods to reduce reliance on traditional fuel sources. A comparative study using survey data collected from - to assess user satisfaction and efficiency of solar cookers in Nairobi slums. Among the surveyed users, 45% reported increased cooking times, with a noticeable trend towards higher adoption rates among youths aged 16-20 who had access to internet connectivity. Solar cookers offer potential as an energy-efficient solution for urban youth in Nairobi slums, though user experience and social acceptance vary based on socio-economic status. Further research should explore the long-term sustainability of solar cooker adoption and investigate ways to enhance user engagement among diverse demographic groups. Solar Cookers, Urban Youth, Nairobi Slums, Adoption Rates, Performance Outcomes The empirical specification follows $Y = \beta_{0+\beta}^{-} p X + varepsilon$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: Kenya, Nairobi, Slums, Solar Cookers, Energy Poverty, Sustainable Development, Participatory Research, Anthropology of Technology, Renewable Energy Systems

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

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