



Solar Cookers and Health: Evaluating User Satisfaction and Benefits in Rural Ethiopian Villages 2004

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Abstract

Solar cookers have been introduced to rural Ethiopian villages as a sustainable solution for cooking food in areas where access to electricity and fuels is limited. A mixed-methods approach was employed, combining surveys with focus group discussions. Data were collected from 150 households over a period of one year. Survey results indicated that 82% of users reported higher dietary diversity due to the availability of fresh vegetables and fruits cooked using solar cookers. Solar cookers significantly improved food security and health outcomes in rural Ethiopian villages, with notable user satisfaction levels. Further studies should explore scalability and cost-effectiveness of solar cooker distribution programmes. Treatment effect was estimated with $\text{text}\{\logit\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Sub-Saharan, Africa, Sustainable, Social-Ecological, Systems, Ethiopia, Qualitative

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