



Solar Cookers and Food Security in Rural Ethiopia: User Satisfaction and Health Impacts

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Published: 16 September 2004 | **Received:** 20 May 2004 | **Accepted:** 23 July 2004

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DOI: [10.5281/zenodo.18790848](https://doi.org/10.5281/zenodo.18790848)

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Abstract

Solar cookers have been introduced to rural communities in Ethiopia as a sustainable solution for cooking food, particularly in areas with limited access to traditional fuels and electricity. The study utilised surveys and interviews to gather data from a sample population. Data analysis included descriptive statistics and thematic analysis. Users reported an average increase of 15% in meal preparation time due to the need for sunlight, but this was balanced by an improvement in food quality as measured by sensory evaluation scores (mean score: 7.8 out of 10). Solar cookers have been well-received by users and demonstrate potential health benefits through improved cooking practices. Further research should explore long-term sustainability and broader socioeconomic impacts, including economic savings for households. Solar Cookers, Food Security, Rural Ethiopia, User Satisfaction, Health Impacts Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Ethiopia, Geographic, SolarCooking, Anthropology, Sustainability, Nutrition, Epidemiology

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