



# Renewable Energy Adoption in Solar Cooker Programmes Across West African Villages in Tanzania

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### Abstract

Solar cooker programmes have been implemented in several West African villages within Tanzania to promote renewable energy adoption for cooking purposes. A mixed-methods approach involving surveys, focus groups, and interviews was employed in a sample of villages across Tanzania. Quantitative data were collected from structured questionnaires administered to participants. The survey revealed that approximately 45% of households reported using solar cookers regularly for their meals, with significant variation observed between rural and urban settings. While the adoption rate varied, the study highlights challenges such as accessibility of equipment and cultural norms affecting the uptake of solar cooking solutions. Further research should focus on developing more sustainable supply chains for solar cookers and enhancing community engagement to increase long-term usage.

<b>Keywords:</b>	<i>Geographic</i>	<i>Terms</i>	<i>Related</i>	<i>to</i>	<i>Africa:</i>
	<i>West</i>				<i>Africa</i>
	<i>Methodological</i>				<i>Terms:</i>
	<i>Mixed-Methods</i>				
	<i>Theoretical</i>				<i>Terms:</i>
	<i>Sustainability</i>				
	<i>Relevant</i>	<i>Research</i>			<i>Concepts:</i>
	<i>Renewable</i>	<i>Energy</i>			<i>Adoption</i>
	<i>Survey</i>				<i>Design</i>
	<i>Innovation Diffusion</i>				



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