



Renewable Energy Adoptions Among Urban Poor in Lagos, Nigeria: A Year of Use Insights

Femi Ogunleyan¹

¹ Babcock University

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Correspondence: fogunleyan@gmail.com

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Author notes

Femi Ogunleyan is affiliated with Babcock University and focuses on African Studies research in Africa.

Abstract

Renewable energy technologies are underutilized among urban poor households in Lagos, Nigeria, despite increasing global efforts to reduce carbon emissions and improve access to sustainable energy solutions. The study employed ethnographic methods including participant observation, semi-structured interviews, and focus group discussions with representatives from various socio-economic backgrounds to gather data on technology use and user experiences. During the year of use, renewable energy technologies were utilised at a rate of approximately 30% among surveyed households. Key themes included cost constraints, technological limitations, and community support networks as significant barriers or facilitators to adoption. While initial uptake was low, the study identified key factors that could improve future adoption rates, such as affordable financing options and enhanced community engagement programmes. Policy recommendations include exploring subsidies for renewable energy products and developing community-based support networks to enhance user satisfaction and technology diffusion.

Keywords: *Africanization, Anthropology, Ethnography, Indigenous Knowledge Systems, Renewable Energy Adoption, Sustainability Studies, Urban Sociology*

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