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Analysis of Design and Implementation of Off-Grid Solar Mini-Grids for Rural Electrification in Nigeria in Nigeria: An African Perspective

C, l, i, f, f, o, r, d, S, m, i, t, h

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| Abstract

This study addresses a current research gap in Engineering concerning Design and Implementation of Off-Grid Solar Mini-Grids for Rural Electrification in Nigeria in Nigeria. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A mixed-methods design was used, combining survey and interview data collected over the study period. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Design and Implementation of Off-Grid Solar Mini-Grids for Rural Electrification in Nigeria, Nigeria, Africa, Engineering, survey research This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.
