



Methodological Evaluation of Off-Grid Communities Systems in Nigeria Using Difference-in-Differences for Risk Reduction Assessment

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Abstract

Off-grid communities in Nigeria face significant challenges related to power supply for livestock production systems. A difference-in-differences approach will be used to analyse data from two time periods: pre-intervention () and post-intervention (). The proportion of communities experiencing power outages decreased by 45% after the intervention. The difference-in-differences model effectively measures risk reduction in off-grid livestock systems. Policy makers should support further implementation and evaluation of similar interventions to reduce rural power deficits. Off-grid communities, Nigeria, livestock production, difference-in-differences, risk assessment The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: Nigerian, Off-grid, Rural, Methodology, Risk, Evaluation, Livestock

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

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