



Methodological Evaluation of Quasi-Experimental Design in Regional Monitoring Networks for Adoption Rate Measurement in Kenya

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Abstract

This study evaluates the effectiveness of regional monitoring networks in measuring adoption rates for energy technologies in Kenya. A mixed-method approach was employed, including a systematic review of existing literature and quantitative analysis using regression models. The study also conducted semi-structured interviews to gather qualitative insights. The analysis revealed that the regional monitoring networks were moderately effective in tracking adoption rates for renewable energy technologies, with a proportion of 45% indicating active engagement. While the quasi-experimental design provided valuable data on adoption trends, further research is needed to enhance network efficiency and effectiveness. Future studies should consider expanding monitoring networks to more regions and integrate real-time feedback mechanisms for improved accuracy. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: Kenya, Monitoring Networks, Quasi-Experimental, Adoption Rates, Energy Technologies, Methodology, Evaluation

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