



Methodological Evaluation of Regional Monitoring Networks in Uganda: Difference-in-Differences Approach to Adoption Rates Assessment

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Abstract

Uganda has implemented regional monitoring networks to assess energy access improvements over time. A difference-in-differences (DiD) regression analysis was conducted using panel data from multiple regions in Uganda. The DiD model accounts for temporal trends and regional fixed effects to estimate the impact of monitoring networks on adoption rates. The DiD model suggests that the monitoring networks have increased energy service adoption by 20% compared to a control group, with robust standard errors indicating statistical significance at the 5% level. Regional monitoring networks in Uganda are effective tools for measuring energy access improvements over time, providing actionable insights for policy-makers and stakeholders. Future studies should expand coverage of regions and technologies to ensure comprehensive data on all relevant sectors. Policy interventions aimed at enhancing network efficiency and expanding coverage are recommended. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Uganda, Sub-Saharan, Monitoring Networks, Panel Data, Methodology, Adoption Rates, Difference-in-Differences*

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