



# Policy Evaluation Framework for Renewable Energy Subsidies in Zimbabwe: A Methodological Approach

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## Abstract

Renewable energy subsidies have been implemented in Zimbabwe to promote renewable energy adoption, but their effectiveness varies widely across different regions and sectors. The methodology incorporates econometric analysis to model subsidy impacts, qualitative interviews with stakeholders for context validation, and spatial regression models to account for regional differences. Solar power adoption varied significantly across regions: urban areas showed higher uptake (58%) compared to rural (20%). The framework identifies key factors influencing solar energy adoption such as subsidy levels and community engagement initiatives. Policy recommendations include adjusting subsidies based on regional performance, enhancing community participation in project design, and expanding grid infrastructure connectivity. renewable energy subsidies, policy evaluation, spatial regression models, Zimbabwe

**Keywords:** *Sub-Saharan, geographical mapping, case study, econometrics, policy evaluation, renewable energy diffusion, qualitative assessment*

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