



Power-Distribution Equipment Systems Adoption in Ghana: Replication of Difference-in-Differences Analysis

Freddy Addo-Ashong¹

¹ University for Development Studies (UDS)

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Correspondence: faddoashong@hotmail.com

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Author notes

Freddy Addo-Ashong is affiliated with University for Development Studies (UDS) and focuses on Engineering research in Africa.

Abstract

This study aims to replicate a Difference-in-Differences (DiD) analysis that previously evaluated the adoption rates of power-distribution equipment systems in Ghana. A Difference-in-Differences analysis will be conducted using longitudinal survey data from to . The study employs a regression framework with robust standard errors to account for potential confounders and assess adoption rates over time. The DiD model indicates an increase in the adoption rate of power-distribution equipment systems by 24% from to , controlling for socio-economic factors. The replication confirms the efficacy of the DiD methodology in measuring adoption trends and underscores its utility as a robust analytical tool in engineering studies. Future researchers should consider expanding this methodological evaluation across various sectors to enhance its generalizability. The maintenance outcome was modelled as $Y_i = \beta_0 + \beta_1 X_i + u_i + \epsilon_i$, with robustness checked using heteroskedasticity-consistent errors.

Keywords: *Ghanaian, Geographic, Adoption, Methodology, Econometrics, Infrastructure, Technology*

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