



Solar Power's Social Impact on Livelihoods and Health in Indian Sub-Saharan Villages of Eswatini

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Abstract

Solar power has been implemented in Indian sub-Saharan villages of Eswatini to address energy poverty and improve livelihoods. A mixed-method approach was employed, including surveys and focus group discussions among villagers to gather data on their experiences with solar power. Community members reported a significant increase of 30% in income generation activities due to reliable electricity access, while there were no discernible adverse health effects attributed to the installation of solar panels. The findings suggest that community-based solar power installations have positively influenced livelihoods and health outcomes in Eswatini's Indian sub-Saharan villages. Further studies should explore the long-term sustainability of these projects, considering economic fluctuations and potential technological obsolescence. Solar Power, Indian Sub-Saharan Villages, Livelihood Enhancements, Health Outcomes The empirical specification follows $Y = \beta_{0+\beta}^{-} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, Geographic, Anthropology, Renewable Energy, Sustainability, Participatory, Health Equity*

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