



Renewable Energy Integration in Remote Healthcare Facilities: An Ethnographic Assessment in Madagascar 2009

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Abstract

Renewable energy integration in remote healthcare facilities has become a critical area of focus for sustainable development, especially in resource-limited settings such as Madagascar. This study employs a qualitative approach through participant observation, semi-structured interviews, and focus group discussions among healthcare providers and community members in remote regions of Madagascar. Participants highlighted the significant challenges faced with unreliable electricity supply, particularly during peak usage periods. A notable theme was the preference for solar power over other renewable sources due to its reliability and minimal maintenance requirements. The ethnographic findings suggest that integrating reliable renewable energy solutions can substantially improve healthcare service delivery in remote areas of Madagascar. Recommendation includes prioritising solar energy as a key component in future infrastructure development projects aimed at enhancing the sustainability of healthcare facilities in Madagascar.

Keywords: *Geographic, Sub-Saharan, Sustainability, Anthropology, Ethnography, Community Engagement, Renewable Energy Systems*

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