Hybrid Renewable Energy Approaches: A Case Study of Awolowo Hall University of Ibadan

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Abstract

INTRODUCTION:In this study viability of Hybrid energy for use in Awolowo hall is investigated by collecting data from the rooms in the hall of residence from the available actual wind speeds and standard deviations carried out by Fadare (2008), available solar radiation intensity for Ibadan.

Methods: The data thus collected is interpreted by thorough energy audit, and utilizing NEG MICRON250 Wind Turbine which has been considered as the most appropriate for a region with Low wind Speed (2.75ms-1)

Such as Ibadan and sizing an appropriate solar PV which could cater for a fraction of the need of audit with a great consideration on the Solar radiation intensity available in Ibadan.

Results: The financial implication of the possible wind turbine used and the solar PV Sizing were Investigated by using Net Present Value (NPV) and Return on Investment (ROI).

CONCLUSION:The result of the Investigation reveals that despite the Low wind resource and a solar radiation of 4-5 hours a day. It could be seen that a combination of the energy proves to be financially viable and possibly supplement for domestic electricity use in Awolowo Hall of residence.. Conclusion of this study is that baby´s colic may be linked to the mothrs diet according to this case report.

Biography:

Atanda A.M completed is M.sc in Energy Technology and Management in 2014 from university of Ibadan and had his B. Tech from Ladoke Akintola University of Technology Ogbomosho 2004.

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