

This paper presents a comparative techno-economic analysis carried out to determine the most feasible of four individual options for off-grid mini-grid power generation system utilizing ...

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Remote area electrification is a crucial need in sub-Saharan Africa's drive to attain universal electrification. In Sierra Leone, with a rural population of over 5 million, the electrification rate...

In Sierra Leone, less than ten percent of rural communities have access to electricity. This study carried out a techno-economic assessment for hybrid power generation for a remote village in Northern Sierra Leone, Masunthu (latitude 9.10W & longitude -12.60N).

The solar PV-wind hybrid system designed in this study aims to improve this situation by providing a low-cost solution for irrigation and low-scale electrification and enabling year-around crop production on a plot of land in Fonima village, Northern Sierra Leone.

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The operation of an existing complementary hybrid grid-isolated urban power system, as well as other proposed hybrid power options for supplying electrical load to Sierra Leone's Bo-Kenema power network, are investigated in this paper.

Literature from the cited works have indicated the viability of hybrid SPV systems as a means creating electricity access to rural and isolated communities. In Sierra Leone, academic literature on the techno-economic feasibility of solar PV systems are few.

Conclusions This work presents a techno-economic analysis of HRES for the supply of reliable and sustainable electricity in Lungi, Sierra Leone, under the prevalent solar and wind ...

Looking at the current constraints in supplying electricity in Lungi through the use of DGs, this work, therefore, recommends a hybrid PV/wind/DG and battery system for future semi-urban and rural electrification projects in Sierra Leone.

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