

This paper aims at analyzing the techno-economic feasibility of a hybrid renewable energy system (HRES) for the sustainable rural electrification of Lungi Town, Port Loko District, Sierra Leone. Optimization, economic, reliability, and sustainability analyses were carried out using a genetic algorithm (GA), with the main objectives of ...

The main objective of this paper is to design an off-grid hybrid renewable energy system comprising solar PV, diesel generator and battery storage that can generate and provide cost effective electricity to a specific office complex located in Freetown, Sierra Leone. The decision

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As part of efforts to address the electrification gap in the African continent, clean energy microgrids paired with battery storage have been rolled out as an affordable and reliable option. Since 2017, Systems Sunlight has been engaged in strengthening energy infrastructure through Sierra Leone's Rural Renewable Energy Project, aiming to ...

This paper considers a decision-making process based on the Government of Sierra Leone's initiative to undertake a project to provide sustainable electricity to the people of Bo and Kenema in Sierra Leone's South-eastern region, with the assistance of the Africa Development Bank (ADB) and the Department for International Development (DFID).

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