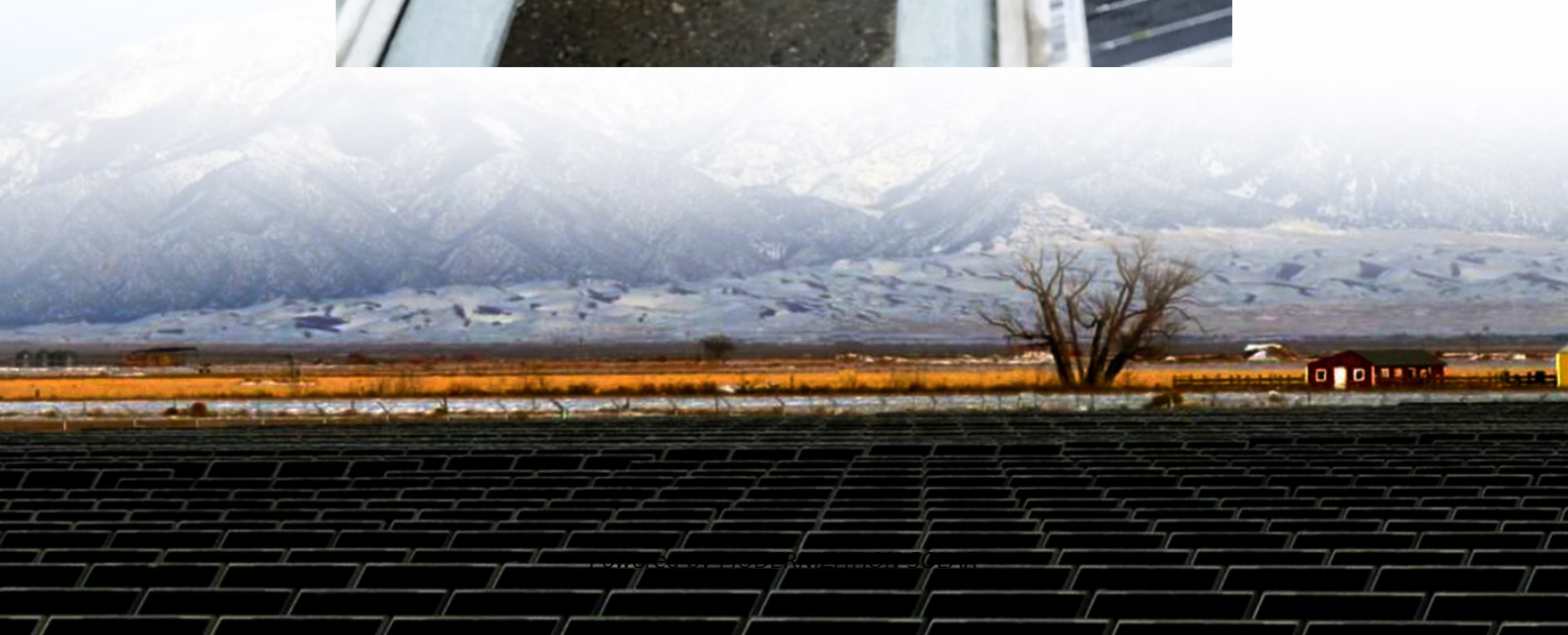


# **Gambia wind power solar hybrid energy storage**





## Overview

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Is there a hybrid energy power system in the Gambia?

Table 3 Comparison of the present study with other recent research papers done using similar tools. Technical and economic simulation of a proposed hybrid renewable energy power system has been carried out in the Basse Santa Su district area of The Gambia.

Can a hybrid wind and solar power system power industrial appliances?

Presenting the urgent need to explore renewable energy sources to tackle the power challenge and reduce the carbon footprint for a greener atmosphere. A novel hybrid wind and solar renewable energy power system (HREPS) coupled to a battery that is capable of powering industrial appliances in the Basse district of The Gambia has been proposed.

What is a hybrid renewable power system?

As can be seen in Fig. 1, the proposed hybrid renewable power system comprises of solar PV module, wind generator, and any other desired and available source that may be incorporated depending on the available renewable resources in the Basse area of The Gambia.

How effective is the performance ratio of a hybrid solar system?

The Performance ratio (PR) is dependent on seasonal influences but very effective as the accruable wind energy augments the solar energy drop in July i.e. supported by the horizontal beam irradiation (BeamHor) in Fig. 21. The financial implication of the continuous operation of the hybrid system for 21 years is presented in Fig. 8.



## Gambia wind power solar hybrid energy storage

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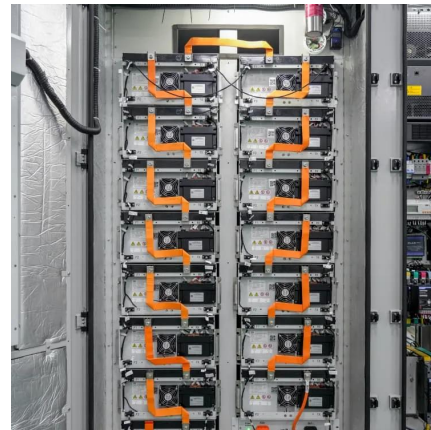


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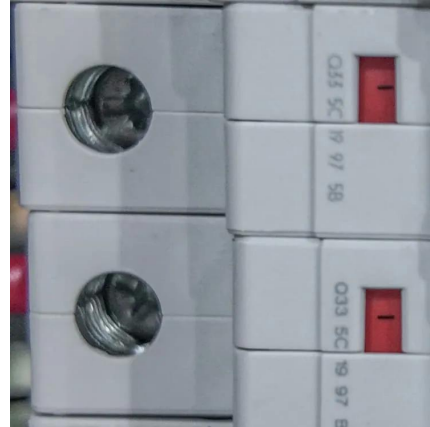
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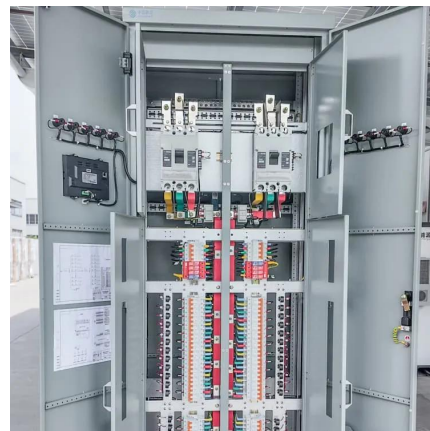


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