

# Gambia wind power solar hybrid energy storage

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.

How much solar power does the Gambia have?

According to the International Renewable Energy Agency (IRENA), The Gambia only had 2 MW of installed solar photovoltaic capacity at the close of 2022. Similarly, in the realm of wind energy, only small-scale projects initiated by private investors and non-governmental organizations are currently in operation.

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.

Why is the Gambia focusing on green hydrogen production?

In recent months, The Gambia has also directed its focus to green hydrogen production, driven by ample solar and wind resources, as well as its coastal location that enables easy access to water for electrolysis.

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.

Is the Gambia ready for a green energy revolution?

The Gambia's green energy revolution, its commercial potential for green hydrogen production and more will be explored at the upcoming MSGBC Oil, Gas & Power 2023 conference and exhibition.

Global Hybrid Solar Wind Energy Storage Market size was valued at USD 6.8 billion in 2023 and is poised to grow from USD 7.53 billion in 2024 to USD 17.11 billion by 2032, ...



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