

Wind and solar complementary survey for solar container communication stations in Benin





Overview

This review aims to identify the available methodologies, data, and techniques for mapping the potential of solar and wind energy and its complementarity and to provide significant research and patents regarding.

How do we evaluate the complementarity of solar and wind energy systems?

The review of the techniques that have been used to evaluate the complementarity of solar and wind energy systems shows that traditional statistical methods are mostly applied to assess complementarity of the resources, such as correlation coefficient, variance, standard deviation, percentile ranking, and mean absolute error.

Does Benin have solar energy?

. Like many of the Sub-Saharan African countries, the Republic of Benin is privileged with a rich supply of solar energy resources, with annual sunshine at around 2500 h, and solar irradiation at approximately 5.4 kWh m⁻² .day.

What is the time-domain energy complementarity between wind and solar energy?

The time-domain energy complementarity between wind and solar energy has been assessed in many sites, and correlation coefficients such as Pearson, Kendall, and Spearman are the most commonly used indexes in quantifying and evaluating the complementary properties between wind and solar power.

Is there a complementarity between solar and wind energy potentials?

This paper presents a study to show the complementarity between solar and wind energy potentials in Benin Republic. Daily wind speed data in the coast of Cotonou city, precisely in Cadjehoun district, has been used to assess wind energy potential. Solar potential is evaluated using spatio temporal daily solar radiation data covering the country.



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Benin wind and solar hybrid system

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