

# Uganda wireless solar container communication station wind and solar complementarity





## Overview

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What is the complementarity metric for solar-wind hybrid generation?

Besides using Kendall's tau correlation as the complementarity metric, this research is based on a pair of indicators (a: solar share, and b: sizing coefficient) derived from a concept of sizing of stand-alone solar-wind hybrid generation to minimize fluctuations of energy production, consequently reducing the required energy storage capacity.

Why do we need a spatial analysis of solar and wind energy complementarity?

A further problem reducing the spatial coverage of studies, is a lack of uniform method applied in available studies. Therefore, this work contributes to the existing body of knowledge by providing a first spatially comprehensive analysis of solar and wind energy complementarity on a global scale.

Does solar-wind complementarity exist in continental China?

In their assessment of solar-wind complementarity in continental China, and using the Pearson correlation coefficient, Ren et al. found similar results to ours regarding the spatial distribution of synergy between these two VRES on a daily scale.

Is there complementarity between wind and solar energy?

The paper offers a global analysis of complementarity between wind and solar energy. Complementarity is examined regarding PV panel inclination and storage capacity. The concept of renewable energy sources complementarity has attracted the attention of researchers across the globe over recent years.



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A. Tillmans and P. Schweizer-ries, "Energy for Sustainable Development Knowledge communication regarding solar home systems in Uganda : The consumers âEURTM perspective," ...

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