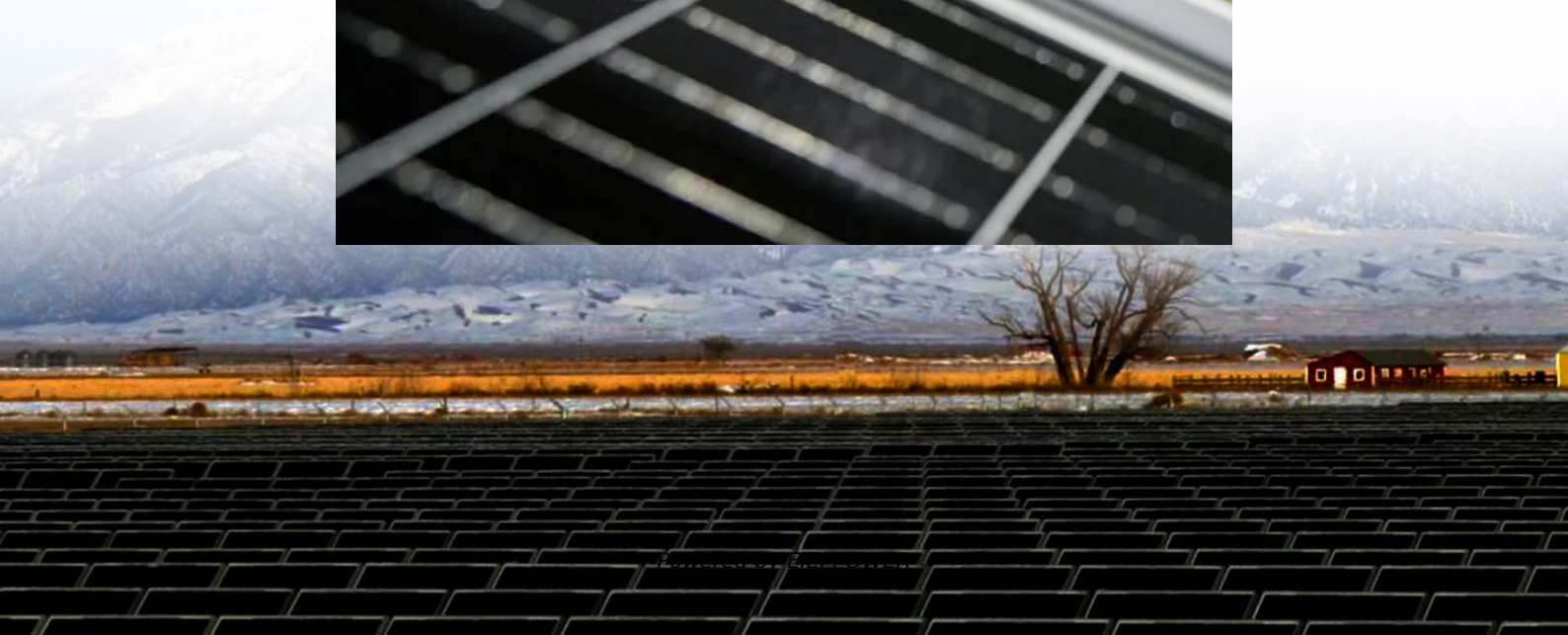


# **Wind and solar complementarity for military solar container communication stations in West Africa**





## Overview

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**Abstract:** In this study, interest is focused on the complementarity of solar and wind energy, in order to assess the profitability of a hybrid renewable energy system that can be installed at three sites located in Burkina Faso, in West Africa. Can a portable solar energy source be used for military deployment?

Kulkarni; Suyash Jadhav In response to the unique energy demands of military operations in remote and frequently mobile settings, this paper introduces a cutting-edge solution as a Portable Solar Energy Source for Military Deployment.

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.

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.

What is solar-wind complementarity?

- Solar-wind complementarity is mapped for land between latitudes 66° S and 66° N.
- 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.



## Wind and solar complementarity for military solar container commu

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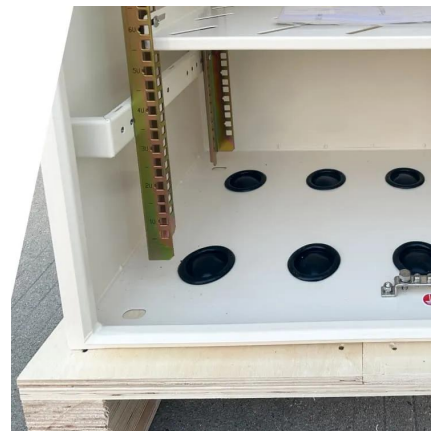


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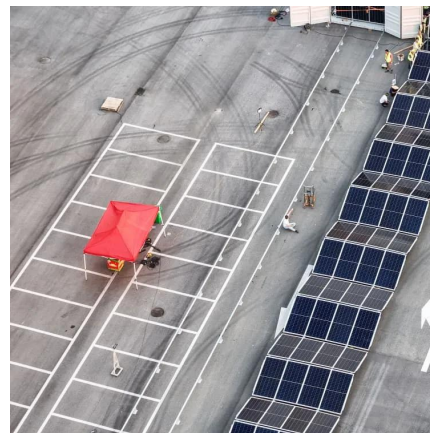


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## **Multi-service communication base station wind and solar complementarity**

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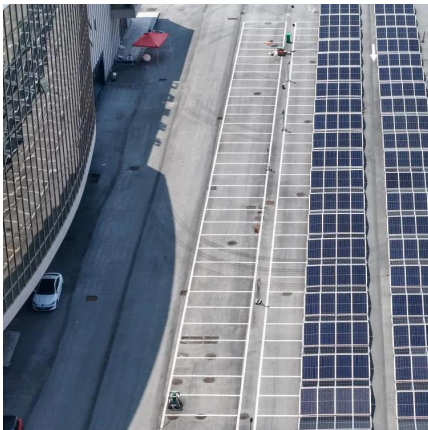
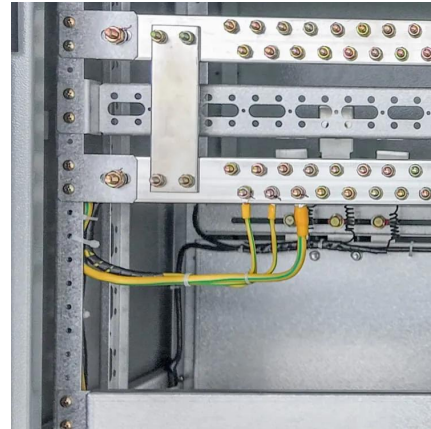
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