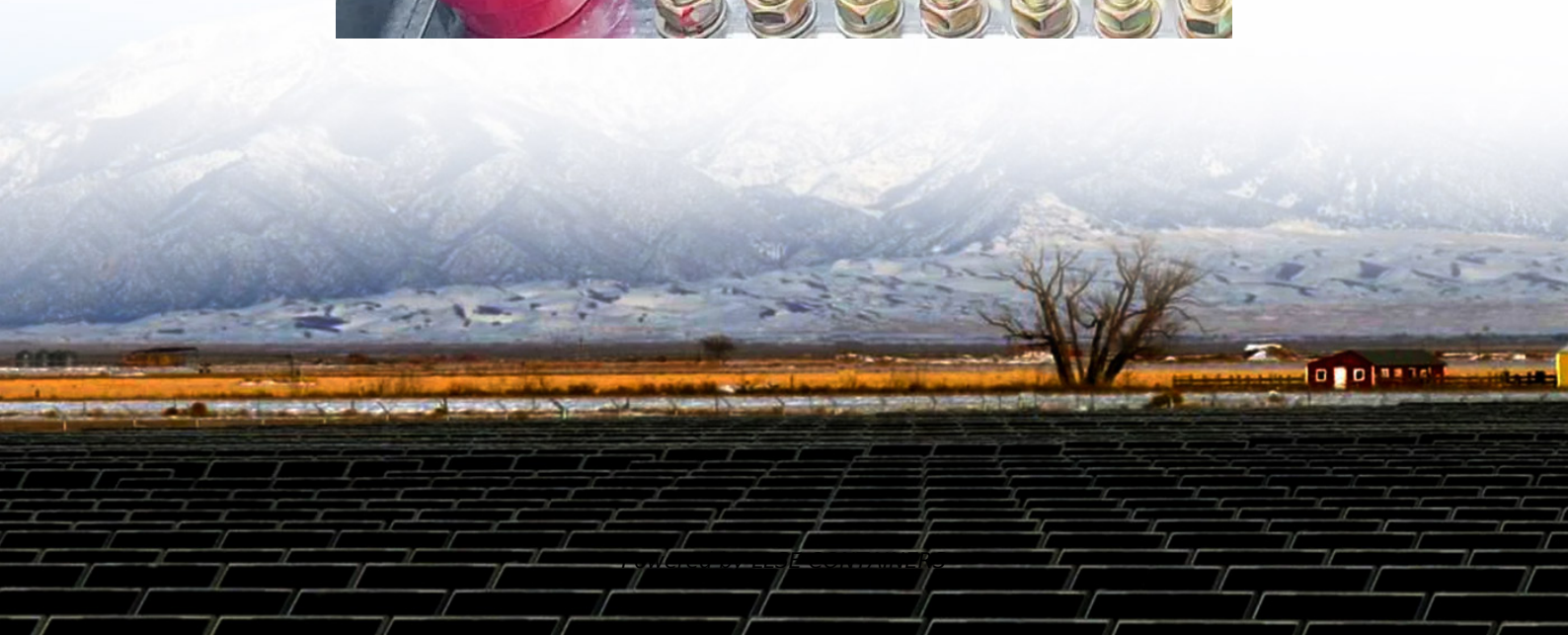


# Dakar Solar System





## Overview

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Does Senegal have a solar energy sector?

Senegal's energy sector is increasingly reliant on solar power, making it essential to assess its long-term viability under changing climate conditions. This study evaluates future solar energy production in Senegal up to 2050, focusing on eight operational solar plants: Bokhol, Sakal, Malicounda, Kahone, Ten Merina, Mekhe, Ndiass, and Kael.

Do solar power plants in Senegal vary over time?

They found that Senegal experiences significant variability in solar resources over time and across different locations, depending on the year and specific site conditions. Niang et al. (2023) evaluated the seasonal performance of six solar power plants in Senegal, namely Bokhol, Sakal, Malicounda, Kahone, Ten Merina, and Mekhe.

Where are solar plants located in Senegal?

This study focuses on eight (8) solar plants, mainly located in western Senegal (Bokhol, Sakal, Malicounda, Kahone, Ten Merina, Mekhe, Ndiass, and Kael), with particular emphasis on Ten Merina, where the observation data used were collected. Ten Merina is located in the department of Tivaoune, the region of Thies (the second most populated region).

How does solar production affect climatic conditions in Senegal?

The seasonal cycle of solar production over Senegal (Ten Merina) is largely influenced by solar radiation, with peak production occurring in March-April and the lowest production during the rainy season (July-September). This demonstrates the dependence of solar production on climatic conditions.



## Dakar Solar System

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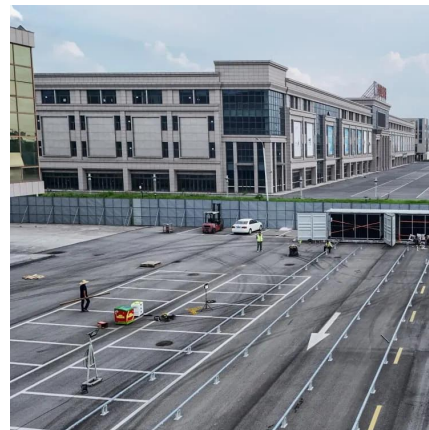
Step by Step Towards Renewable EnergiesThe First Large-Scale Solar-Pv Plants in SenegalFollow-Up Projects in Kaél and KahoneOur PartnersThis project consists of two pioneer photovoltaic



systems. Both Solar-PV plants commissioned in 2017 and are connected to the national power grid. The project sites located near the village Méckhé in the west of the country. The excellent solar radiation conditions make it possible to expect an average annual electricity production of 50 GWh per So See more on atmosfair ScienceDirect

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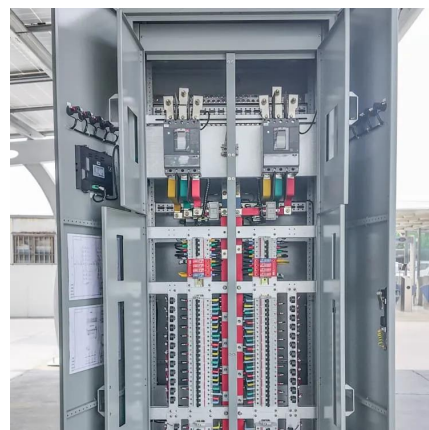


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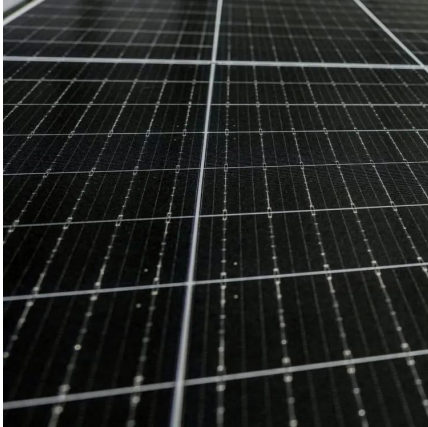
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