

# **West Africa Solar Monitoring Power Generation System**





## Overview

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What is the West Africa Energy Program?

The West Africa Energy Program run by US AID's Power Africa division includes support for five solar projects which will provide about 150MW of electricity, including the Kodení and Nagréongo solar plants in Burkina Faso and a 250MW solar / hydropower hybrid plant in Ghana.

What are West Africans doing to improve their power systems?

West Africans are now moving in many directions to enhance their power systems. This report offers an overview of the challenges and the great profusion of activity across the region. It should inform conversation at Nigeria Energy in Lagos (19-21 September) and at the Africa Energy Expo in Rwanda next year.

Can satellite-based irradiance data predict photovoltaic potential in West Africa?

In this study, 35 years of satellite-based irradiance data (the SARA-2.1 data record) is locally validated and used to get a spatially complete distribution of the photovoltaic potential over West Africa (3 to 20 ° N and 20 ° W to 16 ° E).

Where in West Africa is the biggest power generation project?

There are significant power generation projects planned or underway in most parts of West Africa, with regional economic heavyweight Nigeria the most active market and also home to the biggest scheme: the 3GW Mambilla hydroelectric plant.



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Abstract. This paper addresses long-term historical changes in solar irradiance in West Africa (3 to 20° N and 20° W to 16° E) and the implications for photovoltaic systems. Here, we use ...

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