

## Kongres Container

# Sierra Leone Wind-Solar Energy Storage Station Project Construction



## Overview

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Where is the 50MW Planet Solar PV project located in Sierra Leone?

The 50MW Planet Solar PV project is split in four different locations in Sierra Leone, consisting of a 12MW power plant under construction in BO/Kenema, a 4.05 MW (DC) power plant to be constructed in Port Loko, a 25MW power plant under construction in Makoth and a 10MW power plant under construction in Kono.

How can Sierra Leone improve its low electricity access rate?

Sierra Leone is taking significant steps to improve its low electricity access rate by committing to various renewable energy projects. These initiatives, driven by the country's Presidential Initiative on Climate Change, Renewable Energy & Food Security (PI-CREF), include a major hydropower and solar PV project.

Is there a wind energy system in Sierra Leone?

There is a known wind energy system of 5kw in Sierra Leone, located in the Bonthe District, along the south coastline area. Energy consumption in Sierra Leone is dominated by biomass, which accounts for over 80% of energy used.

What is in Sierra Leone's energy roadmap?

A key part of the roadmap is to incorporate Sierra Leone's abundant renewable energy resources, ensuring a secure energy supply to rural communities and boosting the national economy. One of the most significant projects in this roadmap is the planned expansion of the Bumbuna Hydroelectric Dam.

What challenges does Sierra Leone face in developing electricity infrastructure?

However, Sierra Leone faces multiple challenges in developing its electricity infrastructure. According to the Ministry of Energy, the national electrification

rate stands at 26%, with a dramatic drop to 6% in rural areas where the majority of the population resides.

How long will it take to build a hydro-solar plant in Sierra Leone?

The recently signed Memorandum of Understanding (MoU) for this ambitious project outlines a phased approach, with plans to build a 200MW hydro-solar plant. This plant, which is expected to be completed in two to three years, will almost double Sierra Leone's total installed electricity capacity in its first phase.

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