

**SolarTech Power Solutions**

# **Congo Energy Storage Power Station Project**



## Overview

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In the Democratic Republic of the Congo (DRC), several pioneering renewable energy storage initiatives stand out as exemplars of innovation, including Project 1: Inga Dam Complex, recognized for its significant hydroelectric capacity, Project 2: Solar Power Storage Systems, which harnesses sunlight to provide vital energy for off-grid communities, and Project 3: Battery Energy Storage Systems, focusing on lithium-ion technology to enhance grid stability. What does Kamoa copper & crossboundary energy have in common?

Kamoa Copper S.A. and CrossBoundary Energy have signed a power purchase agreement to provide a 30 MW baseload renewable energy supply to Kamoa-Kakula Copper mining complex in DRC. The renewable energy system will include a 222 MWp solar PV system and a 123 MVA/526 MWh battery energy storage system, offsetting significant fuel generator usage.

What does Kamoa copper's 30 MW solar+storage project mean for Africa?

Source: Mining Weekly Kamoa Copper's landmark 30 MW solar+storage project in DRC sets new standard for clean energy in African mining, cutting emissions and powering Africa's largest copper mine.

Why is Kamoa copper launching a solar project?

Auguy Bakome, Project Manager, Kamoa Copper, said, The solar project is a key milestone in delivering clean, reliable energy to Kamoa Copper. With advanced solar and battery systems, we're boosting energy resilience, cutting emissions, and advancing sustainable mining.

What is the first solar project in Africa?

This solar project is the first of its kind in Africa, will include a 222 MWp solar PV system and a 123 MVA/526MWh battery energy storage system (BESS). The plant will provide a 30MW dispatchable renewable baseload energy supply to the mine, offsetting fuel generators and reducing carbon emissions by around 78,750 tonnes per year.

What is the largest solar project in Africa?

The mining complex is the largest of its kind in Africa, with an installed capacity of 600,000 tonnes of copper per annum, with a smelter under construction that will be commissioned this year. This solar project is the first of its kind in Africa, will include a 222 MWp solar PV system and a 123 MVA/526MWh battery energy storage system (BESS).

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