

## A-Core Container

# Use of energy storage batteries in East Africa



## Overview

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The energy storage market in East Africa is currently undergoing a significant transformation, emerging as a critical component of the region's energy transition and economic development strategy. Driven by a confluence of factors including robust demand from the mining sector, the rapid expansion.

Africa's energy storage market has seen a boom since 2017, having risen from just 31MWh to 1,600MWh in 2024, according to trade body AFSIA Solar's latest report. The Solar Africa Solar Outlook 2025 details that energy storage has become a critical complement to variable renewable energy (VRE).

Analysis in brief: Africa's energy goals are closely tied to advancements in battery storage technology – not only in the generation of electricity but also in its efficient storage and distribution. Considerable progress in the past two years show a continent-wide commitment to expanding battery.

Dalton Mathenge explains how alternating current (AC) power from a wind driven generator is converted to direct current (DC) and stored in batteries inside a control room at Gatuamba village in Nyeri County on August 30, 2023. Photo / JOSEPH KANYI Africa has approximately 60 per cent of the world's.

The Battery Energy Storage System (BESS) market is currently the fastest growing segment of global battery demand, with y-o-y growth of 53% in 2024, according to Rho Motion's BESS database. This expansion has been partly fuelled by falling cell costs along with flexibility demand, which together.

Although battery usage across Africa has been increasing in recent years and has contributed significantly to the rise of electricity access in Africa from 25% to 47% of the population, key challenges still need to be addressed in order to serve the remaining 600 million people who lack access to.

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