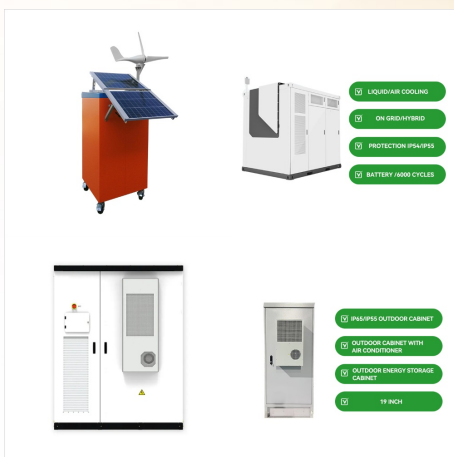




In most cases, the best solar battery in Kenya for a home solar system installation is a lithium solar battery. They hold more energy in a small amount of space, they have high efficiencies and discharge most of their stored energy.



Kenya Electricity Generating Company PLC (KenGen) has been appointed as the implementing agency for the Battery Energy Storage System (BESS) under the World Bank-funded Kenya Green and Resilient Expansion of Energy (GREEN) program.



The project is jointly implemented by the Ministry of Energy, the Kenya Power and Lighting Company (KPLC) and the Rural Electrification Agency (REA). KOSAP seeks to bridge this gap and targets to provide 1.3 million people in the large swathes of the North East and Northern Kenya with electricity.



And last week, Kenya Power announced plans to set up a grid-level 100 MW lithium-ion battery energy storage system (ESS) by 2024 to store power at low demand to be used during peak power demand.



While the benefits of electricity services for the society continue to increase, solar home system (SHS) provides a long-term rural electrification and development solution. SHS is thought out to be a robust and cost-effective option for supplying basic electrification under Kenya's metrological conditions.



In Kenya, lithium batteries have become the go-to solution for home energy storage due to their efficiency, longer lifespan, and adaptability to the local energy needs. This guide will walk you through everything you need to know about lithium batteries for home energy storage in Kenya, including the benefits, types, and factors to consider



This comes amid a gradual shift by Kenya towards the utility-scale Battery Energy Storage Systems (BESS) technology concepts which have picked up pace globally as renewable energy generation expands. The Energy Ministry in its Least Cost Power Development Plan 2021-2030 (LCPDP) includes BESS as a key in supporting the integration of variable



In particular, Kenya is the largest market in Africa for off-grid solar products (USAID and Power Africa, 2019; GOGLA, 2019) and according to the Kenya National Electrification Strategy (KNES), off-grid solar solutions will play an important role in achieving universal electricity access for all Kenyans by 2022 (Lighting Africa, 2018a).