



SolarTech Power Solutions

Kenya Valley Power Energy Storage Product Introduction



Overview

Who is the implementing agency for the Kenyan battery energy storage system?

The Kenya Electricity Generating Company PLC (KenGen), has been designated to be the Implementing Agency for the Kenyan Battery Energy Storage System (BESS), which is part of the Kenya Green and Resilient Expansion of Energy (GREEN) program, funded by the World Bank.

How much coal did Kenya import in 2023?

According to International Energy Agency (IEA), Kenya imported coal valued at about US \$120 million in 2023. The Energy and Petroleum Statistics Report (EPRA, 2024) indicate that coal and coke contributed 3.7% of Kenya's energy supply for the year 2023.

What is Kenya's energy potential?

Kenya's installed electricity capacity was 3,299.8 MW as of December 2024, composed of 29% geothermal, 30% hydro, 13.4% wind, 6.5% solar, and 18.7% thermal. The country's energy potential is vast, with significant opportunities in geothermal, wind, solar, and bioenergy, as well as emerging areas such as green hydrogen and energy storage systems.

What is Kenya's Energy Policy 2025-2034?

As Kenya progresses towards achieving sustainable and inclusive development, energy remains a key driver for economic growth. The National Energy Policy 2025-2034 is therefore a tool in spearheading our country's vision of equitable energy transition, focusing on innovation, resilience, and sustainability to meet the needs of all Kenyans.

How does Kenya's electricity sector work?

Kenya's electricity sector previously relied heavily on imported crude oil and petroleum products fueling nearly 40% of the installed power generating

capacity. With the commissioning of geothermal, wind and solar power plants, this dependency has decreased in recent years and fossil plants provide less than 10% of the annual electricity generated.

What is net metering in Kenya?

Under net metering consumers feed excess electricity from their renewable captive sources into the grid, offering a cost-effective and sustainable energy solution. This mechanism enhances energy security and sustainability while diversifying Kenya's energy mix. The Energy (Net Metering) Regulations, 2024 were published in June 2024.

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