

Sierra Leone Outdoor Communications Power Supply BESS





Overview

How much electricity does Sierra Leone have?

The power supply in the country can at best be described as sporadic. Most of the electricity supply (90%) is restricted to the main four cities of Freetown, Kenema, Bo and Makeni. Uninhibited demand for electricity in Sierra Leone is estimated at 500MW; more than five times the current total national generation capacity of 100 MW.

Where does Sierra Leone's power come from?

Sierra Leone's power generation is primarily derived from two sources – the oil fired Kingtom Power Station and the Bumbuna hydro-electric power plant located on the Seli river in the Tonkolili district. The Kingtom Station is aging and is in a poor condition being unable to ensure the delivery of a reliable and stable supply.

What auxiliary loads are needed for a Bess project?

Fire safety systems, such as fire alarms, control panels and gas ventilation systems (if present). These auxiliary loads are essential for ensuring the safe and efficient operation of BESS projects. Therefore, providing a reliable power supply for these auxiliary loads is crucial.

How much money is needed to boost economic growth in Sierra Leone?

Addressing these acute power problems is essential to boosting economic growth in Sierra Leone. Commentators estimate that around \$3 billion of new investment is required in the sector over the coming years in both generation and the network to distribute the power to homes and businesses.

What are the technical requirements and financial implications of Bess auxiliary power?

One critical but often overlooked aspect of BESS project development is the technical requirements and financial implications of BESS auxiliary power. In



addition to the power required to charge its batteries, a BESS also requires power for its auxiliary loads. BESS auxiliary loads typically fall into the following three categories:.

What if a Bess product does not meet backup power requirements?

If a BESS product cannot meet these backup power requirements as mandated by the code or the Authority Having Jurisdiction (AHJ), an external backup power source needs to be provided. Options for backup power include local distribution network feeders (if available with sufficient kVA rating) or backup generators.



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