

## ContainerPower Energy Solutions

# BESS Telecom Energy Storage Project in the Republic of South Africa



## Overview

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The Red Sands project will be the largest standalone BESS to reach this stage on the continent, designed to store power during off-peak hours and release it when demand is highest—providing essential grid stability and flexibility for South Africa’s electricity network. What is the Bess project?

The BESS project serves as a direct response to meet one of the urgent needs to address South Africa’s long-running electricity crisis by adding more storage capacity to strengthen the grid while diversifying the existing generation energy mix. It uses large scale utility batteries with a total capacity of 1 440MWh per day and a 60MW PV capacity.

What is Bess technology?

The BESS technology offers a versatile solution for improving overall grid performance and is in line with South Africa’s commitment to the just energy transition to a more resilient and sustainable energy future.

Is Eskom launching a battery energy storage system in South Africa?

Friday, 10 November 2023: Eskom unveiled the first of its kind largest Battery Energy Storage System (BESS) project not only in South Africa but in the African continent. Eskom officially opened the Hex BESS site at Worcester in the Western Cape yesterday.

What is Eskom's Bess project?

It forms part of Phase 1 of Eskom’s BESS project which includes the installation of approximately 833MWh additional storage capacity at eight Eskom Distribution substation sites in KwaZulu-Natal, Eastern Cape, Western Cape and Northern Cape. This phase also includes about 2MW of solar photovoltaic (PV) capacity.

What is Eskom's Hex Bess project?

Aerial view of Eskom’s Hex BESS project, which was officially inaugurated 9

November 2023. Image: Eskom Eskom, the public utility company of South Africa, has inaugurated a 20MW/100MWh battery energy storage system (BESS) aimed at mitigating the challenging situation facing the country's grid.

Why is Eskom launching a Bess technology?

The initiative demonstrates Eskom's commitment in finding innovative solutions and embracing new technologies in preparation for the new era in the energy distribution landscape. "We are pioneering the implementation of the BESS technology, serving as a large-scale commercial project to validate the technology's feasibility and benefits.

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