

## A-Core Container

# South Africa Site Energy BESS Project



## Overview

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How will Bess projects impact South Africa's Energy Security?

As South Africa continues to grapple with frequent blackouts and load shedding, these BESS projects will help mitigate risks and contribute to the country's energy security. The Gainfar Project will be connected to the Ngwedi substation, while the Boitekong Project will be connected to the Marang substation.

What does the Red Sands Bess project mean for South Africa?

The project will span approximately five hectares and involves substantial upgrades to Eskom's and the NTCSA's grid infrastructure. The Red Sands BESS will ease transmission and distribution congestion in the Northern Cape, strengthening South Africa's energy infrastructure and supporting a more resilient and decarbonized power sector.

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 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?

Image: Eskom's HEX BESS project is the first of the utility's own-build battery

storage projects. Source: Eskom. A Chinese green technology company has been contracted to supply battery energy storage systems (BESS) for the Oasis 1 cluster of projects in South Africa.

What is Phase 1 of Eskom's Bess project?

This initiative constitutes an integral component of Phase I within Eskom's broader BESS project. Phase I involves the implementation of approximately 833MWh of additional storage capacity distributed across eight Eskom Distribution substation sites located in KwaZulu-Natal, Eastern Cape, Western Cape, and Northern Cape.

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