



MODERNIZATION SOLAR

South Tarawa Bisha Energy Storage Project





Overview

What is Bisha battery energy storage?

The facility is currently the largest operational single-phase energy storage project in the world. The Bisha battery energy storage system consists of 122 pre-assembled units, each equipped with a 6 MW power conversion system and four lithium iron phosphate (LFP) battery modules, with each module capable of storing 5.365 MWh of energy.

Is a 2gwh battery energy storage system being built in Saudi Arabia?

Battery storage containers at the Bisha project. Image: PowerChina. A 2GWh battery energy storage system (BESS) project has gone into operation in Saudi Arabia, according to the engineering, procurement and construction (EPC) firm which delivered it.

How does the Bisha project help Saudi Arabia?

Engineers adjusted installation methods and commissioning processes to improve the system's reliability and performance in such an environment. The Bisha project supports Saudi Arabia's plan to expand renewable energy under Vision 2030, which aims to generate 50% of the country's energy from renewable sources.

Who owns the Bisha battery storage facility?

Owned by the Saudi Electric Company (SEC), the Bisha battery storage facility comprises 122 prefabricated storage units, designed and manufactured by China's BYD. Each unit houses a 6 MW power conversion system (PCS) paired with four lithium iron phosphate (LFP) battery modules, each boasting a capacity of 5.365 MWh.



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The 500 MW/2000 MWh BESS in Bisha, located in the southwestern Saudi Arabian province of 'Asir, has been heralded by project proponents as the

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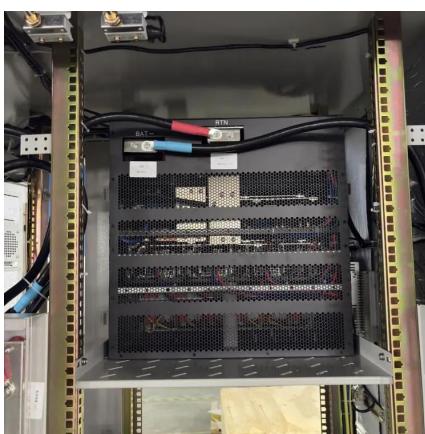
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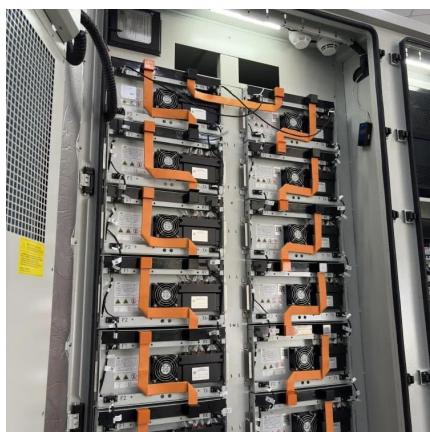
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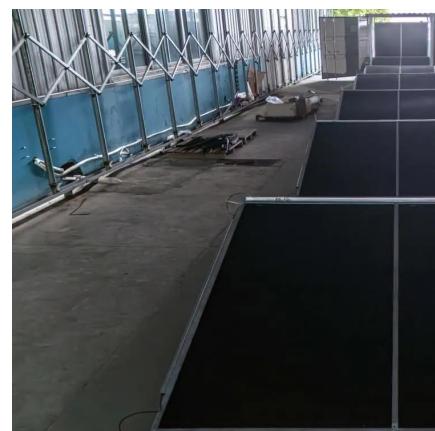
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