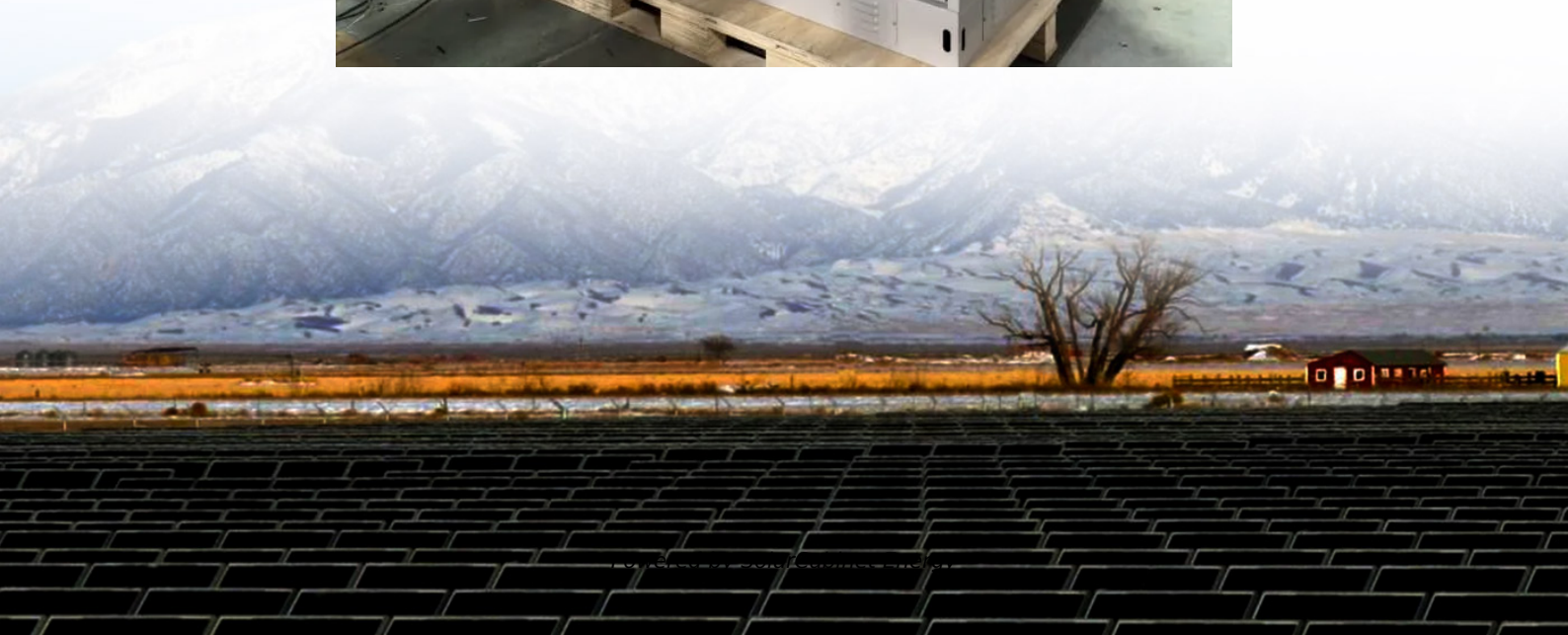


Chilean base station energy storage battery life





Overview

Is Chile ready for a standalone energy storage project?

This project alone nears the capacity (13GWh) the Chilean Ministry of Energy sought in a public land bidding auction for standalone energy storage projects in May of 2024. Chile has been one of the countries at the forefront of the renewable energy transition in Latin America, first with solar PV and now with BESS.

Are battery energy storage systems a viable alternative for Chilean power producers?

With transmission lines at overcapacity and permitting delays slowing the development of new grid infrastructure, battery energy storage systems (BESS) have surged as a profitable alternative for Chilean power producers.

How many energy storage projects are in Chile?

According to a December 2023 publication on the InvestChile website, the country had 23 approved energy storage projects with a total of 3,000 MW of capacity. Chile is exploring a variety of solutions to keep abreast of the changing energy demand landscape ranging from BESS to innovative projects using CO₂.

Why is energy storage important in Chile?

Image: Grenergy Grid constraints have prevented Chile from maximising the potential of its world-class solar resources. Energy storage has, therefore, become a necessity to ensure the financial viability of PV projects, writes Jonathan Tourino Jacobo.

How much energy storage will Chile have in 2024?

During the Energy Storage Summit Latin America (ESS LatAm) in October 2024, Ana Lía Rojas, executive director at the Chilean renewable energy and energy storage association (ACERA), explained how the current levels of



curtailment in Chile, which could end up at approximately 5TWh in 2024, could power up to 3.4GW of 4-hour duration energy storage.

How much does a battery cost in Chile?

In fact, batteries charged at nearly \$0/MWh during the day in the sunny, northern desert regions of Chile, sell energy at night for over \$100/MWh. Although projects such as Engie's BESS Coya are already enjoying these large spreads, this capacity payment will partially de-risk Chile's dependence on volatile, but still profitable, merchant revenues.



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[Chile: BESS as an answer to solar curtailment, grid constraints](#)

However, in recent years, Chile has been facing some serious issues: curtailment and marginal costs nearing zero. With solar project owners needing to find a solution to make ...

[Chile Leads Latin America with the Largest Battery Energy Storage](#)

Chile has taken a significant step in the development of clean energy with the inauguration of the largest battery energy storage system (BESS) in Latin America. This milestone marks a pivotal ...



[In Chile, ENGIE starts commercial operation of the largest Battery](#)

Through its 232 modules, BESS Coya's installed capacity will enable to store the equivalent of five hours of electricity and inject it into the grid during peak periods, representing the delivery of ...

[ARE BATTERY ENERGY STORAGE SYSTEMS A VIABLE ALTERNATIVE FOR CHILEAN](#)

Energy storage battery is charged with normal power A battery energy storage system (BESS), battery storage power station, battery energy



grid storage (BEGS) or battery grid storage is a ...



[Chile Leads Latin America with the Largest Battery Energy Storage](#)

This milestone marks a pivotal moment in the country's transition toward a sustainable and resilient energy future. The Desert BESS Project, developed by Atlas Renewable Energy, ...

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