

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 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.

How long does a battery last in Chile?

Moreover, the lack of an ancillary services market in Chile discourages shorter duration batteries (1-2 hours) as seen in the US and Europe. The general industry consensus is to maximize the availability of the battery and focus on 2-3 revenue streams instead of 4 to 5 (e.g., energy arbitrage, capacity payment, and frequency reserve).

In a landmark event held in the Region of Antofagasta, Chilean President Gabriel Boric led the inauguration of the BESS Coya, Latin America's largest solar battery storage system. This significant development, spearheaded by Engie Chile, is situated in María Elena and represents a substantial leap forward in the country's renewable energy ...

The San Andrés battery energy storage project, with a storage capacity of 35 MW/175 MWh (5 hours), is located on the site of Innergex's existing San Andrés solar park (50.6 MW) in the Atacama Desert, northern Chile. The San Andrés battery project features Mitsubishi Power's Emerald storage solution.

In a historic milestone, AES Andes began commercial operations of Andes Solar IIb, a 180MW solar/112MW battery storage system - the largest in Latin America -- earlier this week. Located in the middle of the ...

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In a historic milestone, AES Andes began commercial operations of Andes Solar IIb, a 180MW solar/112MW battery storage system - the largest in Latin America -- earlier this week. Located in the middle of the Atacama Desert, Chile, Andes Solar IIB boasts a capacity of 112MW for 5-hours of energy based on lithium-ion batteries.

3 ???· The modules will support the Oasis de Atacama solar-plus-storage project in Chile. The shipment is part of a strategic agreement signed in January 2024 between Grenergy and Chinese battery maker ...

3 ???· Chile's Oasis de Atacama storage project expands to 11 GWh Spanish developer Grenergy has unveiled plans to double the PV portion of its Oasis de Atacama project in Chile to 2 GW and expand the battery storage capacity from 4.1 GWh to 11 GWh.

Chile is being seen as a fertile market for energy storage, partly off the back of its rapidly growing market for renewables, particularly solar PV. Other recent developments include the Oasis de Atacama project, which will pair 1GW of solar PV and what could be the largest battery energy storage system (BESS) in the world at 4.1GWh capacity.

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