

How many energy storage projects are in Chile?

Currently, 36 of the 129 large-scale projects Latin America projects with an energy storage component under development are in Chile, including 32 out of 71 of the region's early works projects. The storage technologies either in use or being considered include:

How much battery storage capacity does Chile have?

According to data from Acera, the Chilean Renewable Energy Association, there are only 64 MW of battery storage capacity currently active, representing 0.2% of national capacity. AES Andes, a subsidiary of U.S. company AES Corp. operates all 64 MW at their Angamos and Los Andes substations.

What kind of energy does Chile use?

Chile has the potential to run exclusively on renewable generation, with an estimated energy mix of 46% solar, 31% wind, 12% hydroelectric, and 8% flexible natural gas power plants, as well as 23% of battery storage capacity. The remaining 2% is split between biomass, geothermal, and other less common energy sources.

How much energy does Chile need to replace coal?

In addition, Chile will need an estimated 9.5 GW of new flexible capacity over the next decade to fully replace coal and to achieve a significant drop in emissions necessary to meet the government's climate goals.

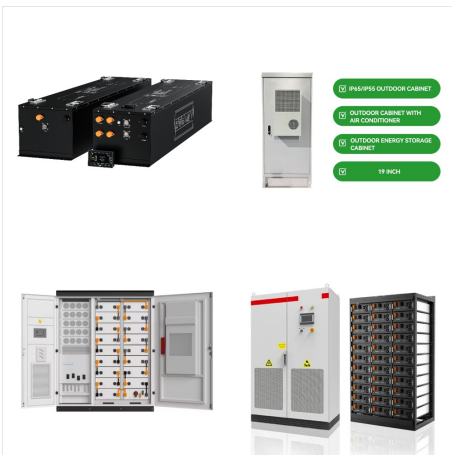


Chile will add a further 1 GW of capacity by 2026, with public land set aside by the government for energy storage projects in a reportedly imminent tender. The energy ministry spokesperson told Dialogue Earth that the country's environmental assessment body is currently assessing the viability of 300 more storage projects, with a total

CHILE ENERGY STORAGE COOLING



This new BESS project in the Tarapac? Region of Chile expands our global portfolio, reinforcing our commitment to delivering reliable, high-performance energy solutions worldwide." e-STORAGE's SolBank 3.0 offers exceptional performance and safety, featuring high-density LFP cells, advanced BMS, and innovative liquid cooling TMS.



The project, developed by Sojitz Corporation and Shikoku Electric Power Co., Inc. through their subsidiary AustrianSolar Chile Cuatro SpA (ASC4), is set to commence construction in the first quarter of 2025. e-STORAGE will provide and integrate its advanced SolBank 3.0 energy storage solution for the project. Under the EPC contract, e-STORAGE



The incorporation of an ice tank energy storage device for cold-water generation in an air conditioning system in a building located in Santiago, Chile, has been analyzed. A hybrid operation strategy of the LHTES device has been implemented for sizing the energy storage capacity of the ice tank.

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The technological diversity of energy storage projects in Chile is remarkable. From battery storage systems to innovative projects with gases such as CO₂, the country is exploring different solutions to meet changing energy demands.

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According to estimates of the national electric system of Chile (SEN) cited by Americas Market Intelligence, the country will have 13.2 GWh/ 2 GW (6-8-hour duration) of operating energy storage by 2026. The northern regions of Antofagasta and Atacama account for nearly 5GW of the BESS pipeline.



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Chile will need new renewable energy storage systems to replace its current backup capacity of coal-fired plants and natural gas-powered combined cycle turbines and improve the reliability of the country's electric grid as it pursues new renewable energy generation. Chile has the potential to run exclusively on renewable generation, with an