

Chile compressed air energy storage power generation





Overview

Some of the existing natural gas pipelines in Chile are underutilized; thus, these reservoirs could be utilized as Compressed Air Energy Storage (CAES) systems taking advantages of fluctuations in the price of e.

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:

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 battery storage capacity does Chile have?

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

Will Chile support the energy transition?

A spokesperson for Engie Group told Dialogue Earth that Chile is seen as one of its strategic countries for supporting the energy transition, which "entails the investment of USD 1.8 billion by 2027. Our plan in Chile considers incorporating 1.4 GW to reach 2 GW of installed capacity in clean energy, including 2 GWh in storage systems".



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Feb 3, 2018 ·

With increasing global energy demand and increasing energy production from renewable resources, energy storage has been considered crucial in conducting energy ...

Chile Energy Storage

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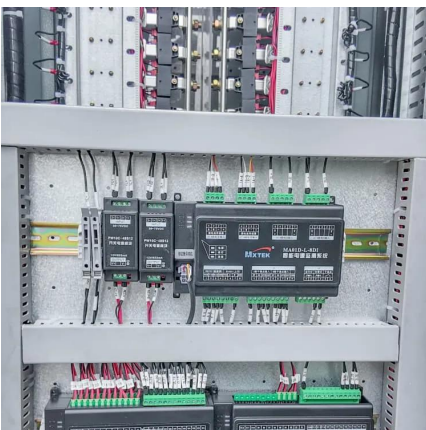
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[Compressed Air Energy Storage Systems](#)

Jul 16, 2025 · Technical Terms Compressed Air Energy Storage (CAES): A method of storing energy by compressing air and storing it under high pressure, which is later expanded to ...

Compressed air energy storage based on variable-volume air storage...

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[Performance assessment of compressed air energy storage ...](#)

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Research progress of compressed air energy storage and its ...

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