#### How many energy storage projects are in Chile?

Currently,36of 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 64MWof 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.

Is lithium ion battery storage available in Chile?

While many projects are under development, lithium - ion battery storage is still limited. 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.

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.

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 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.

The number of ongoing and planned energy storage projects in Chile reached 85 by August 2023, with their capacity totaling 6.4 gigawatts (GW), PV Magazine reports. Sixty projects with a total capacity of 4.7 GW are already under construction, including 50 projects totaling 3.9 GW, which will be put into operation in the period from 2024 to 2026.

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Another potential boost for energy storage could come in August, when Chile is scheduled to hold a once-delayed auction for low-carbon energy capacity. While most of that capacity is expected to go to solar and wind, the auction will aim to procure some evening or nighttime capacity that may be met by pairing intermittent renewables with storage.



CLOU has already played a crucial role in several landmark projects in Chile, from design to operation. The company was involved in the development of a 485MWh BESS in the Atacama desert, in operation since 2023, and was recently awarded a 420MWh project by Transelec, Chile's leading high-voltage transmission system provider.



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65kWh 30kW 130kWh 30kW The company has already invested in co-located BESS projects in Chile, while this deal is its first foray into standalone BESS in the country. Image: SUSI. Investor SUSI Partners will fund the development of a battery energy storage system (BESS) portfolio in Chile, totalling 860MW of power and and up to 3.5GWh of energy storage capacity.

e-STORAGE has secured a turnkey EPC contract to supply a 98 MW/312 MWh DC Battery Energy Storage System (BESS) to the Huatacondo project in Chile. The project, developed by Sojitz Corporation and Shikoku ???



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ENERGY STORAGE SYSTEM

Chile's commitment to achieving 70 % renewable electricity by 2050 creates a favorable market for energy storage projects. This BESS installation is important for grid stability as Chile increases its renewable energy capacity. The project's location in the Tarapac? Region suggests strategic positioning to support solar and wind farms in the area.



MWp Sol del Desierto PV project in Antofagasta, Chile. Image: Atlas Renewables / PR Newswire. Chile has passed new regulations around capacity market payments to energy storage, coinciding with a major project announcement from CJR and Sungrow.

With 23 energy storage projects already approved, totaling an impressive 3,000 MW of capacity, Chile is at the forefront of innovation and efficiency in Latin America. During its recent participation in COP28 in Dubai, Chile not only ???

As frequent readers of Energy-storage.news might know, the majority of BESS projects built and in construction in Chile are paired with a solar PV project. Although a standalone project, the Arena BESS facility is still located in the northern region of Chile, where most of the solar PV capacity is located, due to its high irradiation levels.. Its proximity to solar resources ???





114KWh ESS





The government of Chile will launch a bill this year to procure large-scale energy storage systems for commissioning in 2026 totalling US\$2 billion of investment, on top of 5GWh already being sought for 2027-28.



Energy Storage. Chile has been a pioneer in regulating the installation and operation of storage systems, as well as their integration into the electricity system. In addition, 98 applications for the connection of renewable power plants with storage capacity and energy storage systems have been authorised to date, totalling 10.9 GW. Of



Tehachapi Energy Storage Project, Tehachapi, California. A battery energy storage system (BESS), battery storage power station, battery energy grid storage (BEGS) or battery grid storage is a type of energy storage technology that uses a group of batteries in the grid to store electrical energy.Battery storage is the fastest responding dispatchable source of power on electric grids, ???



Three utility scale battery energy storage projects collocated with solar plants were announced last week in Chile. Enel is building a 67 MW/134 MWh battery, while CJR Renewable and Uriel Renovables are planning 200 ???

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storage systems to innovative projects with gases such as CO2, the country is exploring different





SQM, Codelco set for Chile lithium mining partnership The agreement aims to build a public-private partnership to produce high-quality lithium products in Salar de Atacama in a sustainable manner and "in harmony" with the communities, the companies said. Energy Storage Journal (business and market strategies for energy storage and

Innergex conducts operations in Canada, the United States, France and Chile and manages a large portfolio of high-quality assets currently consisting of interests in 89 operating facilities with an aggregate net installed capacity of 3,377 MW (gross 4,332 MW), including 42 hydroelectric facilities, 35 wind facilities, 9 solar facilities and 3 battery energy ???

The grid-scale energy storage market in Chile looks set to grow substantially in Chile in the next few years. Image: High-voltage transmission lines in the O"Higgins region of Chile. Credit: ShootingStarMax. The company ???

The project has seen its capacity increase ??? from the original 4.1GWh of storage and 1GW of solar ??? last month when the Spanish IPP acquired 1GW of solar PV capacity and 1GW of energised

# line from gas and oil giant Repsol and renewables developer Ibere?lica. "The expansion of Oasis de Atacama, the world's largest battery project, aligns with Grenergy's ???

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Chile's highly ambitious energy storage strategy, coupled with its significant supplies of lithium ??? an important component of batteries used in energy storage systems ??? means that the amount of energy storage deployed ???



Grenergy has recently unveiled plans for an energy storage project in Chile known as Oasis de Atacama. Grenergy will invest US\$1.4 billion in this intitiative, which, once finished, will have a capacity of 4.1 GWh and 1 GW solar. It is expected to come on stream in phases over the next 36 months, helping to improve grid stability and





Law firm Morgan Lewis recently referred to clean energy storage as "the technology that will cash the checks written by the renewable energy industry," and went on to say that "the global energy storage market will continue its rapid growth, with an estimated 387 gigawatts (GW) of new energy storage capacity expected to be added by 2030???a 15-fold ???





Upcoming capacity payment and expected BESS now closely awaiting the publication of the capacity

Chile has long been a pioneer in adopting renewable energy and energy storage ??? dating back to the world's first commercial grid-scale battery-based energy storage system in 2009 ??? setting an example for other ???

# revenues in Chile. All Chilean energy storage players, ranging from IPPs to PCS providers, are market decree (DS N ???

IPP Innergex and system integrator Prevalon Energy have agreed to nearly double the capacity of BESS capacity at two sites in Chile with existing operational facilities. CATL to supply Grenergy 1.25GWh BESS for "world's largest energy storage project" in Chile. Battery energy storage systems (BESS) will play an important role in







The importance of having enough energy storage capacity is clear from the rising amounts of curtailment observed in Chile's power grid. According to ACERA, Chile's National Renewable Energy Industry Association, the power grid curtailed 735GWh of renewable energy in the first five months of 2023, which is an 86% increase from the previous

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3 days Nigeria's Oil Production Hit a 2024 High of 1.7 Million of new energy storage capacity expected to be added by 2030???a 15-fold increase in global energy storage capacity compared to

AES and Oenergy have seen contrasting results from environmental assessments for large-scale energy storage projects in Chile. Skip to content. rating of 624MW and a 5-hour duration, meaning a total energy storage capacity of 3,120MWh, AES said. proposed the construction of the energy storage plant and a 110kV high voltage transmission







The Chile energy market report provides expert analysis of the energy market situation in Chile. The report includes energy updated data and graphs around all the energy sectors in Chile. Around 40% of the coal capacity will be closed ???





