



An aerial view of the 230MW PV, 32MWh energy storage project in the Atacama desert. Image: Colb?n S.A. Utility Colb?n has inaugurated a solar-plus-storage project with a 32MWh battery energy storage system in the Atacama region, the first of an 800MW deployment target.



Gabriel Boric (front row centre), president of Chile since 2022. Image: Biblioteca del Congreso Nacional de Chile. 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 AND ELECTROMOBILITY IS PUBLISHED (hereinafter, the "Law") was published, which is a relevant ele-ment for Chile to reach the goal of carbon neutrality by 2050. The Law, approved unanimously by the National Congress of Chile, promotes the type of facilities to the SEN, establishing that they will only pay the charges



The sharp growth in renewable energy production, and the pursuit of ambitious global targets on new capacity, bring with them a significant challenge, alongside huge potential for the storage market's expansion. The global energy storage market is currently valued at around USD 246 billion, with an estimated 387GW of new energy storage capacity anticipated to be ???



Image: Atlas Renewable Energy. The Chilean Ministry of Energy has opened a public land bidding auction seeking 13GWh of standalone energy storage projects. In coordination with the Ministry of National Assets, the programme aims to allocate energy storage capacity across four regions ??? Arica and Parinacota, Tarapaca, Antofagasta and Atacama.



Energy Minister Juan Carlos Jobet said, "This type of investment is a concrete demonstration of the important role of the energy sector in the post-COVID green recovery. We must continue to make decisive progress in the incorporation of renewable energies to clean the generation matrix.



In this interview, Atlas" head of execution Alex Monzo discussed its entry into energy storage in Chile, the types of projects it is deploying, the challenges it faces, and his views on the BESS supply landscape today. Atlas is targeting 1.5-2GW of BESS deployments in Chile. Entry into storage and the two types of BESS projects being deployed "We're an IPP so we're ???



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 ???



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 ???



Recognition of capacity payment for pure or "stand-alone" storage, i.e. those storage facilities not associated with generation plants. A transitional rule is established to promote storage and ensure that storage units are recognized as having sufficient capacity for a period of ten years, thus favoring those systems having more time of storage, as follows:



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The current law recognizes two types of storage: Energy Storage Systems (SAE): Technological equipment capable of withdrawing energy from the system, transforming it into another type of energy





Feasibility study of the application of a cooling energy storage system in a chiller plant of an office building located in Santiago, Chile, (52%), and a minor share by solar, biomass, and wind energy (5%). The main consumers of energy in Chile are five economic sectors: commercial, public, and residential (CPR), industry and mining, and



AES Andes is a leader in energy storage, with 62 MW in operation. It was a pioneer in introducing the first 12MW lithium battery bank in the Andes substation in 2009. Subsequently, it built 2 banks of 20 MW each adjacent to the Angamos and Cochrane power plants respectively, and in 2021 it added Virtual Reservoir at the Alfalfal I Power Plant



The project, which was revealed by Grenergy in November 2023, will pair 1GW of solar PV with 4.1GWh of energy storage, which the company said makes it the largest energy storage projects in the world. "The agreement with a leading company like BYD demonstrates our firm commitment to energy storage and represents a major step forward in securing the supply ???



In 2022, Chile passed an energy storage and electromobility bill, which made stand-alone storage projects profitable, but the market is still expecting new rules on capacity payment for storage projects, which are to be approved in 2024. Chile has also put in place an auction procedure to award public land for the development of BESS projects.



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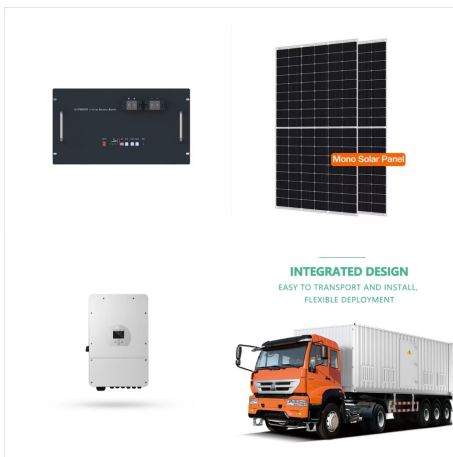


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# CHILE TYPE OF ENERGY STORAGE



In 2020-2021, in response to the COVID 19 pandemic, Chile has committed at least USD 651.02 million to supporting different energy types through new or amended policies, according to official government sources and other publicly available information. These public money commitments include: No public money commitments identified for unconditional fossil fuels



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 countries in the region and around the world to follow. In partnership with one of our parent companies, AES, Fluence is proud to help ???



This system has a storage capacity of 638 MWh, with 139 MW of installed capacity. This co-located Battery Energy Storage System (BESS) technology uses lithium batteries to store the renewable energy generated by the Coya PV solar plant (180 MWac) based in ???



Felipe Massardo Rojas? On November 21, 2022, the Law that promotes the storage of electric energy and electromobility (Law No 21.505 of 2022)?, and which introduces a series of modifications to the General Law of Electric Services, was published in the Official Gazette. The main objectives of the Law are to encourage the [???



Chile was the first country to join AES in accelerating the global energy transition through energy storage. In fact, we installed the world's first utility-scale energy storage system in the Atacama Desert back in 2009. The success of Chile's adoption of energy storage solutions??? by solving grid challenges, integrating renewables



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





The technological diversity of energy storage projects in Chile is remarkable. From battery storage systems to innovative projects with gases such as CO<sub>2</sub>, the country is exploring different solutions to meet changing energy demands.



Today 35.4% of the energy generated in Chile is from wind energy and solar power, and 37.2% comes from water sources in the National Electric System (SEN), which covers the vast majority of demand. Perhaps one of the biggest obstacles in decarbonization is storage. All types of energy, if produced and not used, are lost, as if it were an



The Atacama desert region in Chile is a hotbed of solar and storage activity. Image: Elias Roviello. Nine projects pairing solar or wind with energy storage submitted environmental impact assessments (EIAs) in Chile last month, totalling well over 2GWh of capacity, by companies including Engie, EDF and Sonnedix.



AES Gener has held a virtual groundbreaking ceremony to mark the start of construction on a 112MW / 560MWh battery energy storage system project in Chile, Latin America. "This type of investment is a concrete demonstration of the important role of the energy sector in the post-COVID green recovery," Chile's energy minister Juan Carlos