

# **Expected ROI of backup power battery project in Chile 2025**





## Overview

---

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 can battery storage help reduce the financial impact of curtailment?

Battery storage systems can capitalize on this arbitrage opportunity and help reduce the financial impact of curtailment in hybrid solar power plants until large transmission line projects become operational, stabilizing cashflows. Chile has an operational installed capacity of approximately 1GW in batteries, and another 3GW is under construction.

Can co-located batteries help solar plants capture better power prices?

Co-located batteries, like Engie S.A.'s BESS Coya, will help solar plants capture better power prices by charging the batteries during solar hours when power prices are very low and dispatching energy during peak hours when prices are close to USD 100/MWh.

How many Bess projects are there in Chile?

This momentum is reflected in the data: AMI estimates that there is a 7.7 GW pipeline of BESS projects in Chile, far and away the most advanced front of the meter (FTM) storage market in Latin America. 1 Only 505 MW of BESS projects are currently operational in the entire region.

How does a battery project make money?

Many projects will derive 40%-50% of their revenue from relatively stable capacity payments. The remaining revenues will likely come from contracted power purchase agreements or arbitrage. Contracted revenue minimizes cashflow volatility relative to battery assets relying on arbitrage that aim to



react to short-term price signals.



## Expected ROI of backup power battery project in Chile 2025

---



### Home Backup Batteries

Residential battery backup systems have emerged as a critical solution for home energy backup, ensuring households have a reliable power source during outages and maximizing the use of renewable energy. With the ...

### Solar power in Chile

Solar power in Chile is an increasingly important source of energy. Total installed photovoltaic (PV) capacity in Chile reached 11.05 GW in 2023. [1] In 2024, Solar energy provided 19.92 ...



### Chile: BESS as an answer to solar curtailment, grid ...

However, in recent years, Chile has been facing some serious issues: curtailment and marginal costs nearing zero. With solar project owners needing to find a solution to make their projects financially viable, battery ...



### METLEN Powers Chile: Solar Power and Energy Storage Growth

The EPC agreements will bring 190.5 MWp of solar power and 2,500 MWh of battery energy storage system capacity. Their projects could also help expand Chile's solar ...



### Chilean Battery Energy Storage Systems Stabilize Energy ...

We expect energy storage projects to benefit from stacking, or diversifying, their sources of revenue. Many projects will derive 40%-50% of their revenue from relatively stable ...



### The major Battery Storage projects from around the ...

We provide a detailed report on all the major Battery Storage construction projects around the world with key focus on the largest projects in Europe, Africa, USA and Asia



Lower cost larger system

Verified Supplier

20Kwh  
30Kwh

★★★★★

### Canadian Solar subsidiary to supply 228MW BESS to ...

The construction of the BESS is set to commence in June 2025. Credit: Phonlamai Photo/Shutterstock. e-STORAGE, a subsidiary of Canadian Solar, has secured a contract from Chile-based power generation company ...



### Greenergy to soon connect 1st phase of storage giga-project in Chile

A shipment of 105 battery containers, totalling 0.6 GWh of storage capacity, has arrived at the port of Iquique from China, Greenergy said in a statement. The MC Cube ESS ...

### ESS



### Battery returns vary throughout Chile, solar colocation ...

According to a recent analysis from Aurora Energy Research, however, there are stark discrepancies in battery returns throughout the country. In northern regions, battery storage projects remain consistently profitable ...

### Greenergy obtains green financing for a BESS project in Atacama, Chile

Established in 2007, Greenergy develops and operates solar and battery storage facilities. It is present in 10 countries across Europe, Latin America and the US - including ...



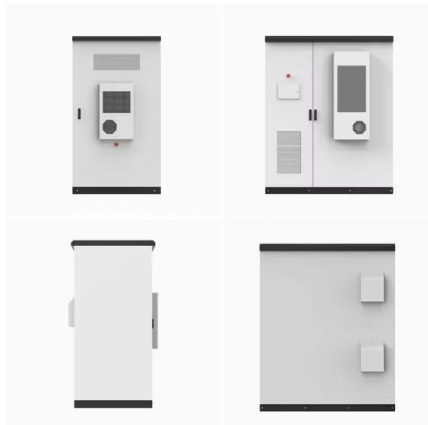
### Chile Expands Renewable Energy with New Large Scale Battery ...

Three different developers have announced separate large-scale battery energy storage (BESS) projects co-located with solar farms in Chile. Enel Chile, the local subsidiary of ...



### CIP starts construction on 1.1GWh standalone BESS in Chile

In related standalone BESS Chilean news, DNV provided support to Atlas Renewable Energy's 800MWh project in Antofagasta. Image: Atlas Renewable Energy ...



### [Backup solar battery Chile](#)

The San Andr s 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 Andr s solar park (50.6 MW) ...

### CVC DIF to Acquire Gabriela Hybrid Solar-Battery ...

5 ???· The Gabriela project forms the fourth phase of Grenergy's Oasis de Atacama initiative, a large-scale hybrid solar and storage complex being developed in Chile's Atacama Desert. Once completed, Oasis de Atacama is ...



### Canadian Solar subsidiary to supply 228MW BESS to Colb n in Chile

The construction of the BESS is set to commence in June 2025. Credit: Phonlamai Photo/Shutterstock. e-STORAGE, a subsidiary of Canadian Solar, has secured a ...



### Chile To Deploy 5 GW Of Battery Storage Capacity By 2030 To ...

Representational image. Credit: Canva Chile is moving quickly to advance its clean energy transition, according to Wood Mackenzie's "Chile Power Markets Long-Term ...



### Chile To Deploy 5 GW Of Battery Storage Capacity By 2030 To ...

After 2030, as solar power capacity continues to grow, natural gas is expected to become the main source of winter backup generation, ensuring reliability while supporting the ...

### U.S. Solar and Battery Storage Boom in 2025 , Shale ...

Solar power and battery storage are expected to lead new U.S. generating capacity additions in 2025, according to the Energy Information Organization (EIA). The EIA expects 63 gigawatts (GW) of new utility-scale ...



### Which are the top 20 countries for battery energy ...

Canada is expected to be the fastest growing market to 2027, with its cumulative project pipeline reaching 18.3GWh - a notable increase from its current capacity of 0.3GWh. Similarly, Saudi Arabia's capacity could ...



### Chile solar energy market 2025 -Opportunities, Policy, Trends ...

Chile's booming solar energy market in 2025, with policy support, industrial trends, and MOTOMA's turnkey solar + storage solutio for mining, agriculture, and residential ...



### METLEN Powers Chile: Solar Power and Energy ...

The EPC agreements will bring 190.5 MWp of solar power and 2,500 MWh of battery energy storage system capacity. Their projects could also help expand Chile's solar power and energy storage capacity by developing ...

### CATL to supply 1.25GWh energy storage to 11GWh ...

CATL supply will cover phase four of the Oasis de Atacama project in Chile which is expected to be operational by 2026. Image: Greenergy Spanish independent power producer (IPP) Greenergy has secured a 1.25GWh ...



### More than 3.4 GWh of Chilean batteries enter ...

A graphical representation of the Salvador battery energy storage project in the Atacama Desert in northern Chile. , Image: Mitsubishi Power Three standalone BESS with a total of more than 2.8 MWh of energy ...



### **Zelestra, Sungrow Sign Landmark BESS Deal for Chile Project**

Under the deal, Sungrow will deliver its PowerTitan 2.0 liquid-cooled battery energy storage system (BESS) and MV power conversion units for the 1 GWh storage facility, ...



### **The best home battery and backup systems of 2025: Expert tested**

We tested and researched the best home battery and backup systems from brands like EcoFlow and Tesla to help you find the right fit to keep you safe during outages or ...

### **Chilean Battery Energy Storage Systems Stabilize Energy ...**

Fitch Ratings-Sao Paulo/New York-01 April 2025: Project finance transactions in Chile are expected to increase due to the recent commissioning of large battery energy storage ...



## **Contact Us**

For catalog requests, pricing, or partnerships, please visit:  
<https://vdbconstruction.co.za>