

# **Solar panel container off-grid project cost in Chile**





## Overview

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Chile has emerged as a world leader in hybrid systems and standalone energy storage since implementing its Renewable Energy Storage and Electromobility Act in 2022. Ensuring projects are paid for injecting power into the grid during peak periods has supported growth, and ambitious battery energy.

A study by the German Society for International Cooperation (IZ) and Chile's Energy Ministry shows how the price of infrastructure for solar energy has dropped in Chile. In 2017, the installation of photovoltaic (PV) panels of between 1 kWp and 5 kWp in Chile cost an average of US\$2,326 per kWp;.

Solar PV in Chile is facing a twofold issue: on the one hand, the ever-increasing curtailment of generation; on the other, the reduction of income due to low prices of electricity with increasing zero marginal cost. As covered last week on PV Tech, Chile has had over 3.4TWh of renewable energy.

Grenergy's Oasis de Atacama project, currently being built in phases, will co-locate 2GW of solar PV generation with as much as 11GWh of battery storage when completed. Image: Grenergy Grid constraints have prevented Chile from maximising the potential of its world-class solar resources. Energy.

Los sistemas solares off grid están orientados para quienes deseen obtener electricidad en zonas sin acceso a red o para quienes deseen abastecer su consumo eléctrico en al menos un 70% de energía proveniente de sus paneles solares. En sistemas con inversor cargador, el 30% restante se podrá.

All renewable energy projects, including utility-scale solar power plants, are eligible for tax exemptions until 2035, with solar PV projects receiving up to 15



years of tax relief. As part of the 2025 national budget, Chile is allocating \$1.2 billion in subsidies specifically for energy storage. Are solar PV projects implementing energy storage capacity in Chile?

Operational solar PV projects in Chile are implementing energy storage capacity, with AES Andes reaching COD of a solar-plus-storage project this week. Image: AES Andes.

Why is solar PV a problem in Chile?

Image: AES Andes. Solar PV in Chile is facing a twofold issue: on the one hand, the ever-increasing curtailment of generation; on the other, the reduction of income due to low prices of electricity with increasing zero marginal cost.

Should energy storage be a luxury asset in Chile?

Having energy storage in Chile is no longer a luxury asset but has become an “absolute necessity”, explains Alejandro McDonough, business development manager of Americas area sales at Wärtsilä Energy Storage and Optimisation (Wärtsilä ES&O).

Can solar power power a Bess plant in Chile?

Both technologies will go hand in hand in Chile, as solar PV is seen as the primary generation source to charge BESS plants, explains Juan Pablo Toledo, country manager, Chile at Metlen Energy & Metals.

Should solar storage be included in the design & building phase?

The US added a record 49GW of new solar capacity in 2024, according to figures from the BCSE and Bloomberg New Energy Finance. Even if added later, storage should not be overlooked in the design and building phase when co-locating with solar PV, write Grant Reasor, Joshua Tucker and Dan Rollins Burns & McDonnell.



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