

Chilean Villa solar container energy storage system





Overview

The near-\$300 million project will feature a 960 MWh battery energy storage system (BESS) and 340 MW of solar generation capacity and will feed into Chile's National Electric System (SEN) via the Santa María-Charrúa transmission line. Is Chile ready for a standalone energy storage project?

This project alone nears the capacity (13GWh) the Chilean Ministry of Energy sought in a public land bidding auction for standalone energy storage projects in May of 2024. Chile has been one of the countries at the forefront of the renewable energy transition in Latin America, first with solar PV and now with BESS.

How can technology help develop solar and storage projects in Chile?

Several technological innovation can help develop solar and storage projects in Chile. This includes AI, smart grids, and energy storage innovations. Chile generates over 60% of its electricity from renewable sources, with the Atacama Desert hosting some of the world's most powerful solar farms.

Why is energy storage important in Chile?

Image: Greenergy Grid constraints have prevented Chile from maximising the potential of its world-class solar resources. Energy storage has, therefore, become a necessity to ensure the financial viability of PV projects, writes Jonathan Tourino Jacobo.

How does a 220 MWdc solar facility benefit Chile?

Expanding solar energy capacity —the 220 MWdc solar facility contributes to Chile's growing solar power sector. The project maximizes Chile's natural solar resources. The 1 GWh battery storage system ensures a consistent energy supply to mitigate solar power intermittency.



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