

# Vanadium battery energy storage mainstream in Valparaíso Chile





## Overview

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The Desert BESS Project, developed by Atlas Renewable Energy, stands as the first large-scale, stand-alone battery energy storage system in both Chile and Latin America. 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 is the largest battery-based energy storage system in Latin America?

In March 2024, BESS Coya, the largest battery-based energy storage system in Latin America, started operations. The facility is located in the Antofagasta region and has a storage capacity of 638 MWh, with 139 MW of installed capacity. The project utilizes lithium-ion batteries and stores the energy generated by the 180-MW Coya photovoltaic plant.

Where are Chile's battery energy storage facilities located?

Chile's first battery energy storage projects were commissioned in 2009, and all but two of its 16 administrative regions have facilities in operation, under construction or in the planning stage. The greatest installed capacity is found in the northern regions of Antofagasta and Tarapacá, the country's solar powerhouses.

Will Chile be able to develop energy storage projects in 2024?

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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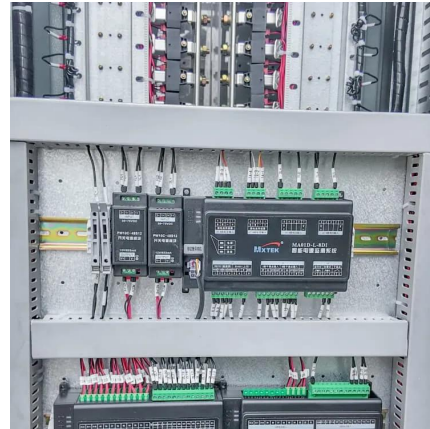
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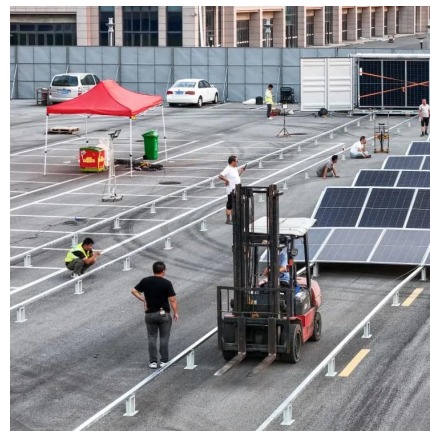
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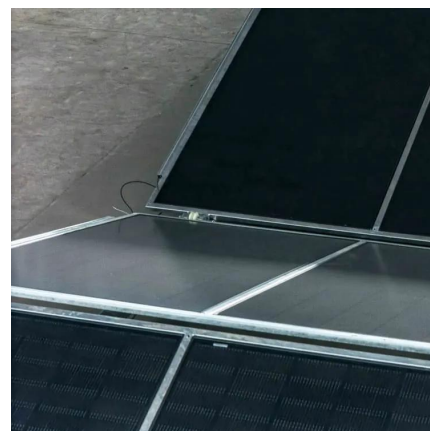


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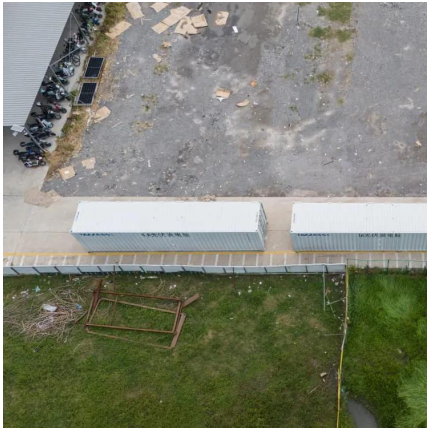
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