

## SolarTech Power Solutions

# Argentina solar energy storage power generation system



## Overview

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Can battery energy storage modernize the grid in Argentina?

The Argentina's ambitious push toward grid modernization through battery energy storage has received an enthusiastic response, with CAMMESA (Compañía Administradora del Mercado Mayorista Eléctrico) confirming the submission of 27 project proposals from 15 companies under its AlmaGBA program.

What are Argentina's renewable resources?

The renewable resources include wind, solar, bioenergy, and small hydro. Argentina's expansions could help diversify the energy mix and enhance energy security. It aims for renewables to account for over 50% of electricity generation by 2030.

Is solar photovoltaic the future of electricity generation in Argentina?

However, despite significant natural potential, solar photovoltaic still represents only a small share of Argentina's total electricity generation. Although this picture may look bleak, a wide range of market segments relating to decentralised photovoltaic generation in Argentina have developed.

What is the contribution of photovoltaic electricity to Argentina's grid system?

The first contribution of photovoltaic electricity to Argentina's grid system occurred in 2011, with a participation of 0.0014% to the total electricity demand, which is a modest contribution to the 1% incidence of renewable energy (RE) at the time, which included small, i.e.,  $\leq 50$  MW, hydroelectric plants .

Can Argentina decarbonize its power sector?

Argentina's vast solar, wind, and hydroelectric renewable energy potential, give it the possibility to decarbonize its power sector and support its COP26

goal of increasing the share of renewable energy in its national energy matrix to 30 percent by 2030.

Does Argentina have a potential for solar energy utilization?

**Conclusions** Our work found a large gap between Argentina's potential for solar energy utilization and the current solar energy deployment, despite advantages such as a high solar and land resources.

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