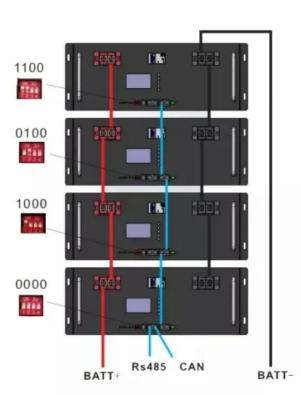


SolarTech Power Solutions

Grid-connected photovoltaic solar panels in South America







Overview

Are small-scale photovoltaic systems regulated in South America?

In South America, regulation on the connection of small-scale photovoltaic systems is recent, given that this type of generation has been integrated into the energy matrix for a few years.

Is solar energy a good investment in South America?

As a result, the preliminary energy balance for 2019 showed favorable results, showing that the share of fossil fuels is only 2%, being the smallest percentage in the region and the share of PV solar energy reaches 3%, being the second-largest participation in South America after Chile.

Where are the largest solar plants in South America?

The largest photovoltaic solar plants in South America are located in Brazil and Chile. The largest solar plant in the region corresponds to the São Gonçalo solar park located in the state of Piauí in Brazil, it has a generating capacity of 437.04 MW and it was inaugurated in November, 2019.

Which country has the most photovoltaic plants in Latin America?

In Latin America, Chile leads the photovoltaic plant scenario with BESS. According to Ref., in 2019 there were three plants in operation with a total installed capacity of 52 MW and a storage capacity of 13 MWh in Anfogasta. Also, Chile presented a pilot project in Arica with a storage capacity of 2 MWh in a container.

How many photovoltaic energy projects are connected to the grid?

A total of 42 photovoltaic energy projects connected to the grid have been awarded through the renovAr program, providing a total of 1,732.4 MW capacity. The states in which these projects are being installed are Cordoba, San Luis, Mendoza, San Juan, Catamarca, Jujuy, La Rioja, Salta, and Santiago del Estero.



Does South America have privileged solar irradiation?

5. Discussion South America has privileged solar irradiation, with emphasis on the northeast region of Brazil and especially the Atacama Desert region, in northern Chile. Regarding the energy matrices of each country, listed in Table 4, a large percentage of renewable energies is observed in the analyzed countries.



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