

# South America Energy Storage solar Units





## Overview

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How many solar power plants are there in South America?

As of 2023, there is only one tower concentrated solar power (CSP) facility in operation in the South American region, located in the Atacama Desert region in Chile, with a total installed capacity of 110 MW and a time of stored energy in the form of heat equivalent to 17.5 h.

Why is solar energy important in South America?

The sun resource is one of the more abundant sources of renewable energies that stands out in South America, especially in the Atacama Desert. In this context, South American countries concentrated solar power (CSP) facilities and achieving carbon neutrality for the year 2050. As a result, solar energy facilities in the region.

What technologies are used in the solar energy industry in South America?

In the scientific literature reviewed exists a gap considering the implementation of Industry 4.0 technologies in the solar energy industry in South America, such as (i) sensors, (ii) IoT, (iii) cloud computing, (iv) data analytics, (v) artificial intelligence, and (vi) digital twins, among others.

How many solar PV farms are there in South America?

Figure 14 shows the spatial distribution of the number of solar PV farms in operation in each of the South American region's countries. Chile (335), Brazil (218), Argentina (39), and Colombia (30) stand out in first place. Chile has more solar PV farms than Brazil because this country has a greater number of small-scale solar PV farms.



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