

SolarTech Power Solutions

Solar power generation in Chile



Overview

Santiago, January 10th – Chile achieved a new milestone in December 2024 by generating a record 42% of its electricity from wind and solar, according to global energy think tank Ember. How much solar power does Chile have?

Chile's cumulative installed PV capacity reached 8.5 GW at the end of December 2023, on 1.65 GW of new projects for the year. The cumulative PV total represents 25.6% of the nation's total power generation capacity.

Does Chile have more solar PV capacity than generation added in 2024?

Year on year, Chile has seen more solar PV capacity curtailed (2.7TWh) than generation added (2.3TWh) in 2024. Image: ACERA. Chile has curtailed a record 5,909GWh of solar PV and wind power in 2024, up 121% from the previous year, according to trade body, the Chilean renewable energy and energy storage association (ACERA).

Why is solar power so important in Chile?

Solar power generation accounted for an unprecedented share of Chile's energy matrix in 2023, exceeding coal and hydroelectric power for the first time.

Does Chile have a commitment to solar energy?

«Chile's commitment to solar energy is an ambivalent issue. Although we have made significant progress in the adoption of renewable energy, and especially solar power, there is still a lot of work to do,» said Camila Svec, COO of Chilean renewable energy manufacturing company CleanLight.

How many solar projects are there in Chile?

There was 5,681 MW of large-scale solar, while distributed-generation projects accounted for the remainder. PV became the electricity generation technology with the greatest presence in Chile in 2023. Of the more than 8,500 MW that is currently in operation, 71% is installed between the northern regions of

Arica Parinacota and Atacama.

How much solar power does Chile have in 2023?

Chile ended 2023 with 7,729 MW of solar capacity under construction. There was 5,681 MW of large-scale solar, while distributed-generation projects accounted for the remainder. PV became the electricity generation technology with the greatest presence in Chile in 2023.

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