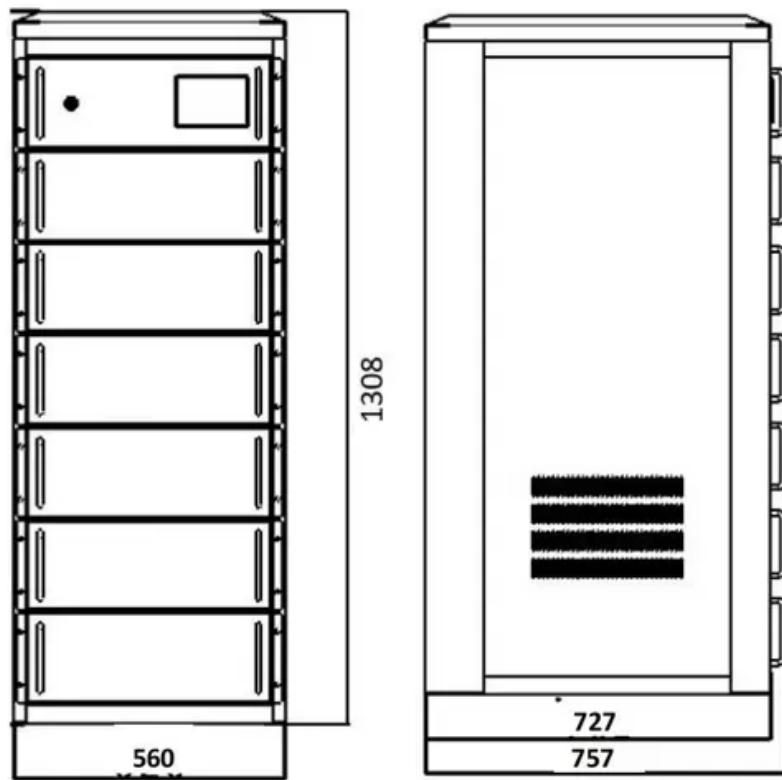


Chile's solar power generation system



Overview

How much solar energy does Chile produce?

Optimal use of finite resources Solar energy represents 26% of the total electricity capacity of Chile, accounting for 9.0 GW (2023). In 2023, 20% of Chile's electricity generation was solar-based . In the case of the UK, 3.1 GW was produced in 2023 by solar power representing a 4.9% contribution to the UK national grid.

Does Chile have a national power system?

By 2013, several experimental wind and solar energy projects had been deployed in Chile. Since then, several studies have addressed the national power system through scenario analysis , , .

How much wind & solar power is in Chile?

Curtailment first appeared in Chile in August 2015 and had been increasing substantially, hand-in-hand with wind and solar generation. In 2016, some 398GWh, or 8% of total wind and solar generation went unconsumed in Chile. In 2017, that rose to 1,179GWh (14%).

How will solar power impact Chile?

From a 13% combined share of generation today, wind and solar surge, to supply 40% of generation by 2030; by 2050 they produce two thirds of Chile's electricity. Utility-scale batteries see a large uptake from the mid-2030s, providing critical flexibility to the system by shifting solar electricity towards the evening peak.

How is Chile transforming its energy system?

Section 1. Over the past decade, Chile has begun a rapid shift toward cleaner energy, aided by a liberalized power market and strong policy support. In the next three decades, the country's electricity system is expected to be transformed further, with lower- and lower-cost renewable resources gradually

pushing out conventional power plants.

Will Chile reach 100% renewable generation?

Chile is a unique case marked by its extraordinary solar resources and the lack of any international interconnections. Deep penetration of solar will be an important part of Chile's future and so will the technical challenge to reach 100% renewable generation.

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