

A-Core Container

Brazil is developing solar power generation systems



Overview

Brazil is expected to add 13 GW of solar capacity in 2025, according to the Brazilian Photovoltaic Solar Energy Association (Absolar), but growth appears to be slowing as curtailment, grid constraints, and regulatory uncertainty challenge new projects. How much solar power does Brazil have?

Solar power generation has surpassed 55 gigawatts (GW) of operational installed capacity in Brazil. Of this total, 1.6 GW was added to the system this year, a report by the country's solar energy association Absolar states.

How has distributed solar generation capacity changed in Brazil?

Distributed solar generation capacity grew from less than 1 gigawatt (GW) in 2018 to 40 GW in 2025 through June, accounting for 43% of all electricity capacity additions over that period. In 2012, Brazil implemented net metering policies, which have recently contributed to large increases in distributed solar generation capacity.

Is Brazil a good producer of solar energy?

Just three years ago, Brazil did not feature among the world's top producers of solar energy, but by 2023 it had risen to sixth place in the rankings. The pace of growth has been notable: since 2022, the country has added, on average, roughly one gigawatt of solar capacity every month.

How can solar energy be used in Brazil?

Government Programs: Initiatives such as the inclusion of solar systems in the "Minha Casa, Minha Vida" program aim to expand access to solar energy for low-income families, promoting social and energy inclusion. The expansion of distributed solar generation significantly contributes to the diversification of Brazil's energy matrix.

Does Brazil have a 'distributed' solar system?

Allied to this, in 2012 the country gave its authorisation for "distributed"

generation – the production of energy on a smaller scale, close to the point of consumption. This format now accounts for almost 70% of solar energy in Brazil, and is the main driver of solar's growth in the country.

Does Brazil have a potential for photovoltaic energy?

During the era of isolated systems, some companies began to recognize Brazil's potential for photovoltaic generation. But it wasn't only the private sector that became interested in this source—the public sector also began seriously considering the possibility of expanding the electricity matrix with photovoltaic solar energy.

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