

Brazil s solar photovoltaic panels





Overview

The total installed in Brazil was estimated at 53.9 GW at February 2025, which consists of about 21.9% of the country's electricity matrix. In 2023, Brazil was the 6th country in the world in terms of installed solar power capacity (37.4 GW). Brazil expects to have 1.2 million solar power generation systems in the year.

In 2020, the country's installed solar PV capacity stood at 8.5 gigawatts. By the end of 2024, this had grown to roughly 53 gigawatts. The Brazilian solar sector is experiencing a rapid expansion, with planned utility-scale installations amounting to more than 139 gigawatts as of February 2025. How much solar power does Brazil have?

In the last five years, Brazil has increased its solar photovoltaic energy generating capacity by more than 6-fold. In 2020, the country's installed solar PV capacity stood at 8.5 gigawatts. By the end of 2024, this had grown to roughly 53 gigawatts.

How much solar power does Brazil have in 2023?

In 2023, Brazil was the 6th country in the world in terms of installed solar power capacity (37.4 GW). Brazil expects to have 1.2 million solar power generation systems in the year 2024.

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.

Is Brazil embracing solar energy?

Brazil isn't just embracing solar energy—it's revolutionizing its potential in the global energy sector. As we count down to the Solar World Congress 2025 in Fortaleza, let's dive into Brazil's solar energy history. Fifteen years ago, no one could have imagined that Brazil would become one of the world's largest



powers in photovoltaic solar energy.

Which state in Brazil has the most solar power?

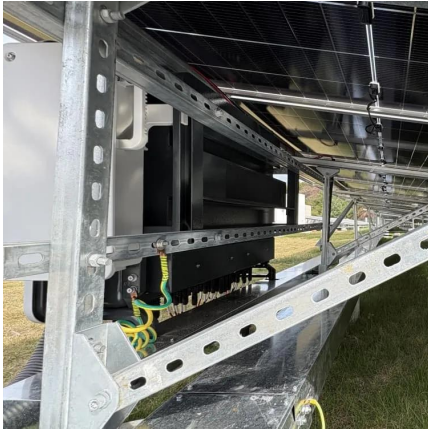
The states in Brazil with the most distributed solar capacity are in the South and East regions of the country: São Paulo (2.62 GW), Minas Gerais (2.60 GW), Rio Grande do Sul (2.08 GW), and Paraná (1.87 GW). In March 2023, São Paulo surpassed Minas Gerais in solar distributed generation capacity.

When will solar systems be installed in Brazil?

Note: 2023 data include systems installed through March 31, 2023. Brazil's growth in distributed generation capacity from renewable resources—especially solar—has increased rapidly since the country implemented net metering policies in 2012.



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Solar power in Brazil

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[Solar photovoltaic in Brazil: 19.8% of the electricity mix, 57 Mt of](#)

Solar PV has established itself as one of the main sources of energy in Brazil, ranking second in the country's electricity mix with a 19.8% share. This significant growth ...



Outlook on the Brazilian scenario of floating photovoltaic solar energy

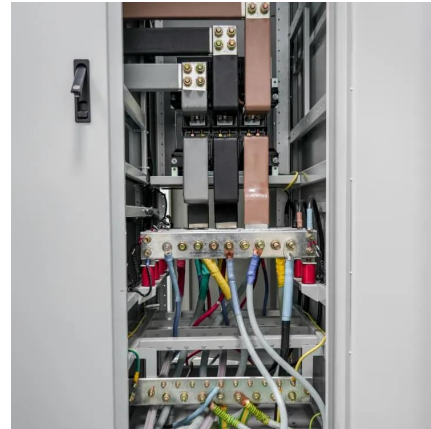
Brazil offers significant potential for installing floating photovoltaic systems in artificial reservoirs, as it represents the world's second-largest installed hydroelectric capacity, ...

[Solar Energy in Brazil Surpasses 3 Million Installations, Boosting](#)

Brazil recently reached the milestone of 3 million distributed solar generation systems installed,



solidifying its position as a global leader in the adoption of photovoltaic solar ...

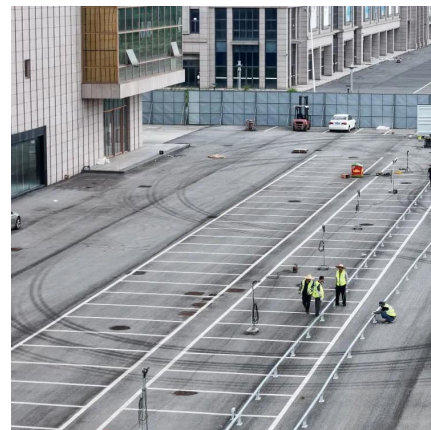


[Economic overview of the use and production of photovoltaic solar](#)

In Brazil, despite the large existing solar potential, the encouragement to technology is still incipient. This paper aims to demonstrate the key aspects of the evolution of regulatory ...

[Brazil's PV market is booming, with installed capacity exceeding ...](#)

Brazil's photovoltaic power generation has increased more than 4,300 times over the past decade, making it the country with the largest installed photovoltaic power generation ...



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