
Solar power generation system in Brasilia

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.

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.

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.

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.

Regarding centralized generation, Absolar estimates an average annual capacity of between 3.7 GW and 5.3 GW by 2029. Brazil installed a record 18.9 GW of new solar capacity ...

Home and building owners installed more than 3.7 million renewable distributed generation systems in Brazil as of June 30, 2025. Unlike centralized generators, where power ...

Ideally tilt fixed solar panels 16°; North in Brasília, Brazil To maximize your solar PV system's energy output in Brasília, Brazil (Lat/Long -15.7783, -47.9319) throughout the year, you should ...

The abundant solar irradiation in the Amazon region makes it an ideal location for photovoltaic systems, whether in the form of solar home systems or microgrids, which can significantly reduce reliance on diesel, ...

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In recent years, solar energy has established itself as one of the main bets for the global energy transition, and Brazil stands out in this scenario. In 2024, the installed capacity ...

Another element is the growth of so-called distributed generation, such as solar panels installed on homes or factories, which diminishes demand for power from the grid.

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