

Brazil's outdoor 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.

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.

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.

How much solar power does Brazil have in 2024?

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.

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.

Why is solar power important in Brazil?



“The advancement of solar PV power in Brazil strengthens the competitiveness and sustainability of the productive sectors, factors that are increasingly important for the national economy and for the fulfillment of the environmental commitments assumed by the country.

Where are solar panels made in Brazil?

Pirapora Solar Complex, one of the largest in Brazil and Latin America, with a capacity of 321 MW. In 2016, a factory capable of producing 400 MW of solar panels a year opened in Sorocaba in São Paulo, owned by Canadian Solar. A plan to build a solar panel factory in Rio Grande do Norte was announced by the Chinese manufacturer Chint in 2017.



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Harnessing the Sun: the growth of the PV solar sector in Brazil

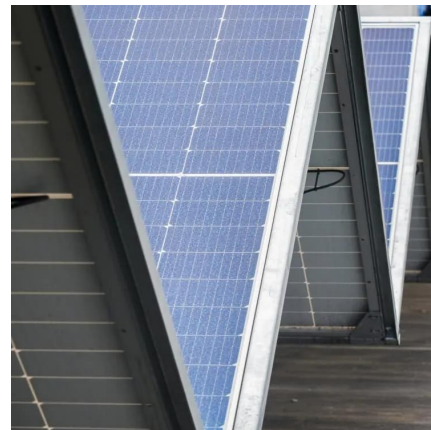
In this long read, Stella Consonni reports on the growth of the PV solar sector in Brazil and the challenges to further expansion Brazil's renewable energy installed capacity is already notably ...

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Taxes on imported solar panels: Brazil says yes, the EU reflects

From 2024 to 2027, photovoltaic modules assembled in Brazil will be subject to a 10.8% taxes on imported solar panels.

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[Brazil Small Outdoor Solar Panel Market Size 2026-2033](#)

Brazil's small outdoor solar panel market is projected to grow at a CAGR of over 12% through 2033, driven by increased demand for off-grid and mobile energy solutions in ...

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[Top five solar PV plants in development in Brazil](#)

Listed below are the five largest upcoming Solar PV power plants by capacity in Brazil, according



to GlobalData's power plants database.
GlobalData uses proprietary data ...

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Solar power in Brazil

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Brazil's Duty-Free Policy For Solar Panels

In Brazil, solar panels exempted from import duties and related taxes must strictly adhere to the country's specific policy framework and quota mechanism. The following is a ...

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55GW! Brazil's PV Industry Hits Milestone and Promises Strong ...

PVTIME - Brazil's National Electric Energy Agency (Aneel) recently reported that the country's installed photovoltaic capacity has surpassed 55GW, nearly 25% of its total ...

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[Solar Energy in Brazil: The Next Powerhouse , ISES](#)

These records highlight the growing importance of solar energy in Brazil's energy landscape and its potential to soon become a major force in ...

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[Analysis of Soiling Loss in Photovoltaic Modules: A ...](#)

Soil accumulated on a photovoltaic (PV) module can significantly reduce the transmittance of the cover glass, resulting in power losses and ...

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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 ...

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Solar power in Brazil

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Brazil accelerates in solar PV energy and becomes the eighth ...

When analyzing the accumulated installed capacity of solar PV technology between 2021 and 2022, Brazil rose five positions in the world ranking of photovoltaic source ...

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Solar Energy in Brazil

Solar Energy in Brazil Contents 1 Introduction 1.1 Solar PV Knowledge and studies in América do Sol Project[1] 1.2 Brazilian Solar Atlas 1.3 Concentrating Solar Power Brazilian Digital ...

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[Brazil Solar Panel Manufacturing Report . Market ...](#)

Explore Brazil solar panel manufacturing landscape through detailed market analysis, production statistics, and industry insights. Comprehensive data on ...

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[Solar Energy in Brazil: The Next Powerhouse , ISES](#)

These records highlight the growing importance of solar energy in Brazil's energy landscape and its potential to soon become a major force in the country's energy transition.

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Largest Solar Power Stations in Brazil , Photovoltaic Parks in ...

The solar farm covers 579 hectares and has a total of 850,000 solar panels. It can produce roughly 550GWh of sustainable energy each year, sufficient supply around 268,000 ...

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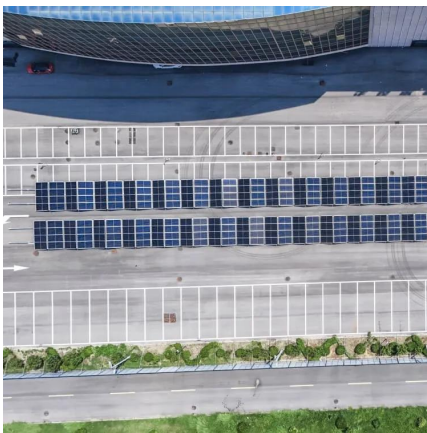




[Brazil Emerges as Fourth-Largest Solar Market with 18.9 GW](#)

According to ABSOLAR and SolarPower Europe, Brazil added 18.9 GW of solar PV capacity in 2024. The country ranked fourth globally behind China, the United States and ...

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[Solar Panel Cost Guide for Brazil, IN \(2025\)](#)

Find the cost of solar panels in Brazil, IN. EcoWatch estimates an average installation cost of \$25,038 to install solar panels in Brazil with an average system size of 8.7.

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[Top Solar Equipment Distributors in Brazil](#)

Founded in 1964 and in recent years working in the manufacture of photovoltaic panels, Balfar Solar has two factories installed in Brazil, one located in the city of Paranavaí-PR and another ...

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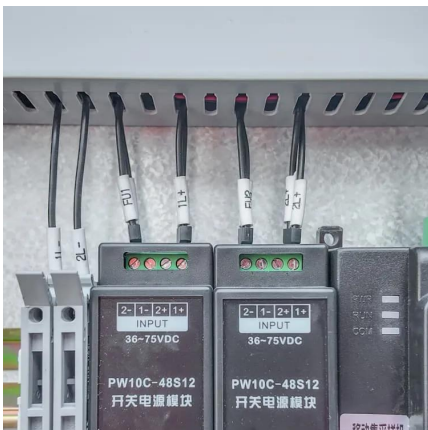
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The largest PV plants in Brazil

Brazil's proximity to the equator makes it one of the most promising regions on Earth for harnessing sunlight efficiently, and the growing demand for PV panels from ...

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Largest Solar Power Stations in Brazil , Photovoltaic Parks in Brazil

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Photovoltaic solar energy: Conceptual framework

Capturing solar energy through photovoltaic panels, in order to produce electricity is considered one of the most promising markets in the field of renewable energy. Due to its fast ...

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Photovoltaics

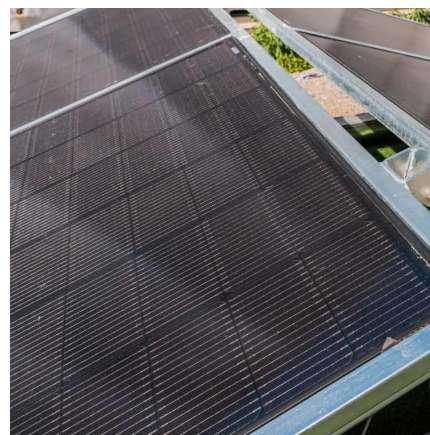
A photovoltaic system, or solar PV system is a power system designed to supply usable solar power by means of photovoltaics. It consists of an arrangement ...

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Brazil - pv magazine International

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 ...

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[With the reintroduction of import taxes on Chinese ...](#)

For years, Brazil has relied on Chinese solar panels to power its green energy transition. With a new tax on solar energy equipment imports, ...

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[Brazil to add 19.2 GW of solar capacity in 2025](#)

From pv magazine LatAm Although Brazil continues to consolidate its position as a regional solar powerhouse, particularly in distributed generation, 2025 will mark a pause in the ...

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