

# Brazil Solar Power System



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### Solar Energy in Brazil: From Opportunity to a 55 GW Reality

Solar energy in Brazil surpassed the 55 GW milestone in March 2025, more than doubling its photovoltaic (PV) count in the last few years. That breakneck expansion is reshaping Brazil's energy

### Solar power generation is Brazil's 2nd largest source of electricity

Solar self-generation can be found across more than 5,500 municipalities and in all 27 Brazilian states, Absolar reports. Large centralized photovoltaic plants also operate in all states.



### Brazil holds the key to Latin America's solar potential

Brazil accounts for only 27% of solar capacity that is currently operating or under construction in Latin America, but 65% of the capacity in the pre-construction phase, and so is home

### Solar power in Brazil

Solar energy has great potential in Brazil, with the country having one of the highest levels of insolation in the world at 4.25 to 6.5 sun hours/day. [4] As of 2019, Brazil generated nearly 45% of its energy, or





## Distributed solar generating capacity is the fastest-growing power

In Brazil, solar photovoltaic dominates the distributed generation sector, representing 99% of the country's total distributed generation capacity. Small hydroelectric and wind account for

## **Brazil's solar capacity reaches 60 GW**

Brazil's operational solar capacity now consists of 42.1 GW from small and medium-sized systems and 17.9 GW from large-scale solar plants. Solar currently represents 23.5% of all installed



## **Solar PV in Brazil**

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

## **Solar power is booming in Brazil. Can it be a boom for all?**

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:



## **Solar Energy in Brazil: The Next Powerhouse , ISES**

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

## Brazil

In 2024, solar power, when including distributed generation, became the second largest source of electricity in Brazil, surpassing wind power, and reaching almost 50 GW. Utility scale solar



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