

Brazil's wind power generation and energy storage

Are wind and solar power reshaping Brazil's energy mix?

Wind and solar power are also reshaping the country's energy mix. In 2024, they generated 24% of Brazil's electricity, more than double their share from five years earlier. Solar power grew from just over 1% of generation in 2019 to 9.6% in 2024, while wind climbed from 8.8% to 15% over the same period.

Does Brazil need solar and wind?

"Brazil shows how a rapidly growing economy can meet its rising need for electricity with solar and wind," said Raul Miranda, Ember's global program director based in Rio de Janeiro. "Solar and wind are a perfect match for Brazil's hydropower resources, taking the pressure off in drought years."

Why is Brazil reshaping its energy mix?

Ember said the rapid growth of wind and solar helped Brazil avoid similar surges this year. Wind and solar power are also reshaping the country's energy mix. In 2024, they generated 24% of Brazil's electricity, more than double their share from five years earlier.

Why is wind power important in Brazil?

Brazil has a vast territory and great geographical diversity, giving it significant wind power potential for electricity generation. Wind speeds in Brazil vary considerably by region and altitude, which is a crucial factor for wind turbine efficiency.

Which Brazilian wind farms produce the most energy a year?

Comparative graph for annual energy production and capacity factor for onshore wind farms in Brazil. As indicated in Figure 19, the highest annual energy production comes from Alto do Sertão, with approximately 3855 GWh, while Chuí has the lowest, with 1786 GWh. The capacity factors range between 0.35 (Chuí) and 0.43 (Chafariz).

What is Brazil's energy matrix?

Brazil's energy matrix is one of the cleanest and most renewable in the world, thanks to its heavy reliance on sources such as hydroelectric, biomass, wind, and, more recently, solar.

1 day ago; Brazil's build-out of wind and solar power has been fast enough to meet and exceed growth in electricity demand over the last decade. This has reduced the need for additional ...

1 day ago; Wind and solar power generated more than a third of Brazil's electricity in August. This marks the first time these renewable sources have crossed that threshold, according to ...

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Brazil's electricity in August 2025, producing 19 TWh for 119 million homes. Highlight Brazil's ...

1 day ago#0183; While August 2025 stands out as a record month, wind and solar are playing a growing role in Brazil's electricity mix across the entire year. In 2024, wind and solar generated ...

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