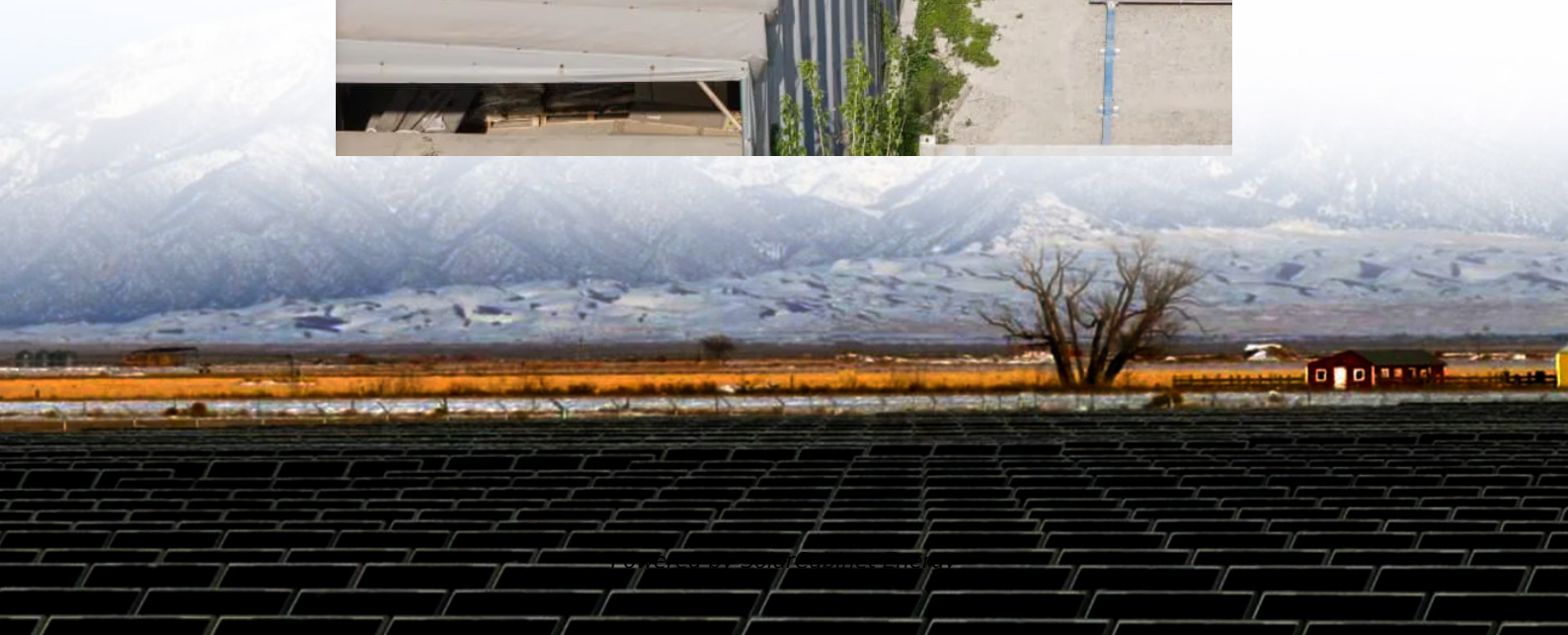


Does Brazil s electricity system have wind solar and energy storage





Overview

In 2023, solar power, including , became Brazil's second largest electricity source, surpassing wind power. In 2021, utility-scale solar energy saw a 40.9% increase, while distributed solar generation grew by 84%. Investments in utility-scale solar projects have surpassed \$20 billion, with an additional \$1 billion invested in distributed solar generation since 2012.

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.

How much energy did Brazil generate in August?

Wind and solar power generated more than a third of Brazil's electricity in August, the first month on record the two renewable sources have crossed that threshold, according to government data made public on Thursday and analyzed by energy think tank Ember.

What percentage of Brazil's electricity comes from hydropower?

More than half of Brazil's electricity, about 55%, is generated from hydropower, making it the backbone of the country's clean electricity mix. Wind power contributes around 15%, and solar energy accounts for an impressive 10%.

What's new in Brazil's power system?

He said the milestone highlights Brazil's shift from an almost entirely hydro-based power system to one built on three main pillars: hydro, solar and wind.

What percentage of Brazil's electricity is renewable?

In the same timeframe the share of wind and solar generation rose from 2% in 2014 to 24% in 2024. Brazil is a leader in renewable electricity within the G20 and has already exceeded its goal of generating 84% of its electricity from



renewable sources by 2030.

What is Brazil's largest source of electricity?

Brazil's largest source of clean electricity is hydro (56%). Its share of wind and solar (24%) is above the global average (15%) – higher than some regional peers such as Argentina (14%), but lower than others such as Chile (34%). Brazil relied on fossil fuels for just 10% of its electricity in 2024.



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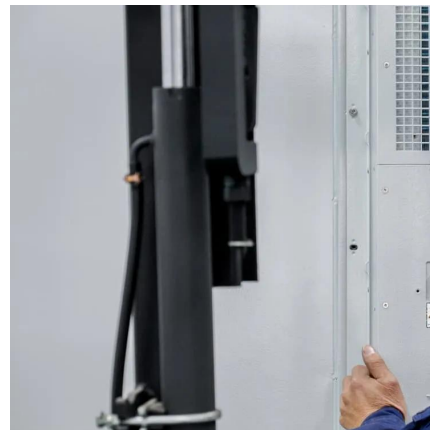


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Overview
Renewable electricity resources
Electricity supply and demand
Access to electricity
Service quality
Responsibilities in the electricity sector
History
Tariffs and subsidies

In 2023, solar power, including distributed generation, became Brazil's second largest electricity source, surpassing wind power. In 2021, utility-scale solar energy saw a 40.9% increase, while distributed solar generation grew by 84%. Investments in utility-scale solar projects have surpassed \$20 billion, with an additional \$1 billion invested in distributed solar generation since 2012.

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