

Brasilia electricity generation



Overview

Brazil has the largest electricity sector in Latin America. 9 GW of new power generation capacity, with a total installed capacity of 209 GW, of which nearly 85% was renewable. Energy Information Administration (EIA). In 2024, Brazil added a substantial 10. The installed capacity grew from 11,000 MW in 1970 with an average yearly. The energy planning authority (EPE) estimates an increase of 18 % in per capita electricity consumption from 2019 to 2029 (PDE 2029), and a growth rate of over 2. People often use the terms 'electricity' and 'energy' interchangeably, but it's important to remember that the amount of electricity we use is just one part of our total energy demand. How much. Brazil's electricity landscape in 2025 is notable for its robust low-carbon profile, with over 87% of its electricity generated from clean energy sources.



Article Content

Energy in Brazil

In 2021, Brazil's electricity generation was primarily driven by renewables, accounting for 75.9% of the total electricity produced, with hydro contributing

Solar Energy in Brazil: From Opportunity to a 55 GW

Brazil's electricity generation capacity is quickly being dominated by renewable energy. Solar energy is taking up a growing share of this capacity, having

Investing in energy infrastructure to boost the transition

More renewables are being integrated into countries' generation mix, but grid bottlenecks and ageing energy infrastructure risk restricting future growth.

Brazil energy profile

Other low-emissions in energy supply investment include heat pumps, CCUS, electricity generation from hydrogen, electricity generation from ammonia and direct air capture.

For the first time, wind and solar generated more electricity than gas ...

London, 21 May – Wind and solar generated more electricity than gas globally for the first month ever in April 2026, according to data analysed by global energy think tank Ember. Together, wind and solar

Latin America and Caribbean

In Brazil, solar generation exceeded fossil fuel generation for the first time in 2025. In 2025, fossil fuels provided 35% of the region's electricity, down from 47% in 2015. This makes

Renewable Energy

What technologies look most promising in transforming our energy mix? In this article we look at the data on renewable energy technologies across the world;

Electricity sector in Brazil

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

Brazil has the largest electricity sector in Latin America. In 2024, Brazil added a substantial 10.9 GW of new power generation capacity, with a total installed capacity of 209 GW, of which nearly 85% was renewable. The installed capacity grew from 11,000 MW in 1970 with an average yearly growth of 5.8% per year. Brazil has the largest capacity for water storage in the world, being dependent on hydroelectricity generation

Brazil Electricity Generation Mix 2025 | Low-Carbon

Brazil's electricity mix includes 52% Hydropower, 15% Wind and 11% Solar. Low-carbon generation peaked in 2024.

Carbon Footprint of Electricity Generation in Brazil: An ...

The present paper aims to evaluate the past and future environmental performance of the electricity generation in Brazil in terms of Global Warming Potential (GWP) and Global Temperature

Electric sector modernization in Brazil: Milestones, challenges, and ...

All-encompassing review of electric sector modernization in Brazil. The paper addresses both historic milestones and future challenges/prospects. An important research gap is filled by

Electricity sector in Brazil

Brazil has the largest electricity sector in Latin America. In 2024, Brazil added a substantial 10.9 GW of new power generation capacity, with a total installed capacity of 209 GW, of which nearly 85% was

Electricity generation in Brazil, 1990-2022 - Charts - Data ...

Electricity generation in Brazil, 1990-2022 - Chart and data by the International Energy Agency.

An overview of Brazil's electricity market: Planning, dispatch models ...

Brazil stands out in this global transformation due to its predominantly renewable electricity matrix, where hydropower, wind, solar, and biomass account for approximately 90 % of generation

Brazil's power market | UBS Global

To dissect this dynamic, we simulated different scenarios considering load growth, thermal dispatch and hydro generation (based on the last 12 months history or in minimums and

Energy in Brazil

In 2021, the most important sources of electricity generation were hydropower, contributing 55% of total electricity, followed by natural gas with 15%, and wind

Energy Systems of the Future in Brazil

These unfavourable hydrological conditions have led to an increase in the use of fossil energy sources, which in turn leads to raising energy prices. For these reasons, the development of other sources of

Renewable energy in Brazil

Electricity generation in Brazil per source in terawatt-hours Paulo Afonso
Hydroelectric Powerplant in Bahia As of 2018, renewable energy accounted for 79% of the domestically produced electricity used

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