



LOTWA SYSTEM

Distributed solar energy storage in Sao Paulo Brazil





Overview

How has distributed solar generation capacity changed in Brazil?

Distributed solar generation capacity grew from less than 1 gigawatt (GW) in 2018 to 40 GW in 2025 through June, accounting for 43% of all electricity capacity additions over that period. In 2012, Brazil implemented net metering policies, which have recently contributed to large increases in distributed solar generation capacity.

How big is solar generating capacity in Brazil?

Compared with distributed solar, utility-scale solar generating capacity at the end of June was only 17.9 GW, according to the Brazilian Electricity Regulatory Agency (ANEEL). As of June 30, 2025, total solar electric generating capacity in Brazil was 23% of the total electric generating capacity.

How many solar power systems are there in Brazil?

As of June 30, 2025, total solar electric generating capacity in Brazil was 23% of the total electric generating capacity. Home and building owners installed more than 3.7 million renewable distributed generation systems in Brazil as of June 30, 2025.

Which country has the most solar power without storage?

The 5-MW limit for solar generation without storage remained. The states in the south and southeast regions of Brazil have the most distributed solar capacity: São Paulo (5.8 GW), Minas Gerais (4.9 GW), Paraná (3.7 GW), Rio Grande do Sul (3.4 GW), and Mato Grosso (2.6 GW).



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Distributed solar generating capacity is the fastest-growing power

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