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Brazil reached the 50 GW solar mark by the end of October, with 33.5 GW of distributed solar and 16.5 GW of utility-scale PV, according to new data from Brazilian PV association ABSolar.

Brazil has reached 50 GW of installed solar capacity, with 33.5 GW from distributed generation and 16.5 GW from utility-scale projects, according to new data from Brazilian PV association ABSolar.

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Brazil recently reached the milestone of 3 million distributed solar generation systems installed, solidifying its position as a global leader in the adoption of photovoltaic solar energy. This significant advancement results from effective public policies, governmental incentives, and increasing public awareness of the importance of sustainable energy sources.

According to data from the National Electric Energy Agency (ANEEL), distributed solar energy is present in 99.75% of Brazilian municipalities, covering 5,556 out of 5,570 municipalities in the country. The residential segment leads the market with 2.3 million connections, accounting for 79% of micro and mini distributed generation installations. This is followed by the commercial sector, with 307,000 installations (10%); rural, with 260,000 (9%); and industrial, with 43,000 (1%). Additionally, over 8,000 systems pertain to the public sector, comprising 0.27% of the total.

Impacts on the Energy Matrix and SustainabilityThe expansion of distributed solar generation significantly contributes to the diversification of Brazil’s energy matrix. According to data from the Ministry of Mines and Energy, renewable sources account for 83.79% of Brazil’s entire electricity matrix, with solar energy adding 3 GW in 2023.

In addition to reducing dependence on fossil fuels, solar energy decreases greenhouse gas emissions, aligning with Brazil’s international commitments to combat climate change. Distributed generation also alleviates the distribution system, reducing losses and increasing energy efficiency.

Despite advancements, the sector faces challenges, such as the need to improve transmission infrastructure to

accommodate the growing volume of energy generated. According to a Reuters report, wind and solar energy producers in Brazil are reconsidering future investments due to limitations in the national grid’s capacity, which has restricted the amount of energy that can be delivered, affecting project profitability.

To overcome these obstacles, it is essential that the government continues investing in infrastructure and improving incentive policies, ensuring a favorable environment for the sustainable growth of solar energy in the country.

In summary, the milestone of 3 million distributed solar generation installations in Brazil highlights the success of incentive policies and the growing awareness of the importance of sustainable energy. With the continued efforts of the government and private sector, the country is on the right track to becoming a global reference in clean and renewable energy.

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