



Colombia's solar power generation status

As of 2023, Colombia's renewable electricity generation capacity was 14.3 GW. Most of this capacity is hydropower. Solar power is growing fast, and in 2023 accounted for about 5% of the renewable capacity, up from almost zero five years earlier. The country has significant wind and solar resources that remain largely unexploited. According to a study by the World Bank's Energy Sector Management Assistance Program (ESMAP), exploiting the country's significant wind potential alone could cover more than the c...

Colombia is solidifying its position as a solar energy leader in Latin America, thanks to high solar radiation in regions like the Caribbean, Los Llanos, and western Cundinamarca.

This document provides an overview of wind and solar energy in Colombia at the beginning of 2025, with commentary on outlooks.

By March 31, 2025, Colombia's total effective net electricity generation capacity reached 20,858.6 MW. Hydropower accounted for 63.39% with 13,221.8 MW, thermal generation 30.15% with ...

Colombia's solar power sector grew rapidly in 2024. Learn about key rooftop and community projects driving the nation's clean energy transition.

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Colombia's equatorial and tropical location provides exceptional solar resource availability. The nation receives substantial direct solar radiation year-round, unlike temperate ...

From August 2023 to July 2024, Colombia's electricity generation showed a strong reliance on low-carbon sources, providing more than 60% of the nation's electricity.

Colombia's national grid is getting stronger in 2025 with 17 new energy projects, mostly solar, boosting capacity and resilience. Discover how distributed generation, solar power, and ...

Colombia's pathway to a clean energy future hinges on a dramatic scale-up of renewable generation. National estimates suggest that between 2023 and 2052, installed capacity in solar and ...

Colombia is approaching 2 GW of cumulative installed PV capacity, with 1.34 GW currently operational and an additional 700 MW in testing, according to the country's grid operator.



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