

Solar Power Generation in Colombia



Overview

As of 2023, Colombia's renewable electricity generation capacity was 14. Celsia SOLAR Yumbo solar energy plant in Colombia. Photo by Celsia, via Wikimedia Commons, licensed under Creative Commons Attribution-ShareAlike 4. Colombia just reached a milestone that few Latin American nations have achieved; the country invested more than US\$9. This document provides an overview of wind and solar energy in Colombia at the beginning of 2025. Download SEI brief / PDF / 428 KB Vega-Araújo, J. Major companies like Celsia and Ecopetrol are expanding their solar portfolios, while international firms like Enel Colombia and Latin America Power are also investing in the country. This. Colombia is establishing itself as a solar benchmark in Latin America, thanks to its high solar radiation in regions like the Caribbean, the Eastern Plains, and western Cundinamarca. The country's installed solar capacity surpassed 1 GW in 2024, an exponential increase from 184 MW in 2021.

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[Renewable energy in Colombia](#)

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...

[Tapping into Colombia's Vast Solar Power Potential](#)

Colombia has excellent solar energy potential, particularly in the northern and eastern regions. The country receives an annual average solar irradiation of 4.0 kWh/m²/day to 6.0 kWh/m²/day, making it ...



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

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Colombia has set targets for diversifying its

energy mix by incorporating wind, solar, and geothermal resources. The country announced a net zero target at the COP26, as well as a nationally ...



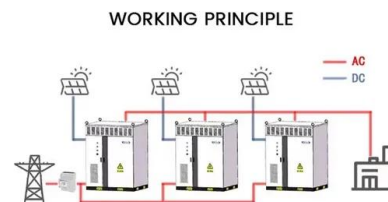
[Colombia Sees Big Solar Energy Growth in 2025](#)

Colombia's solar energy sector is set for significant growth, with several projects in the pipeline for 2025. Major companies like Celsia and Ecopetrol are expanding their solar portfolios, ...



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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.



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