

The electricity sector in Colombia is dominated by large hydropower generation (65%) and thermal generation (35%). Despite the country's large potential for new renewable energy technologies ...

Overview Electricity supply and demand Access to electricity Service quality Responsibilities Renewable energy resources History Tariffs and subsidies The electricity sector in Colombia is dominated by large hydropower generation (65%) and thermal generation (35%). Despite the country's large potential for new renewable energy technologies (mainly wind, solar, and biomass), this potential has been barely tapped. A 2001 law designed to promote alternative energies lacks certain key provisions to achieve this objective, such as feed-in tariffs

The Colombian electricity system stands out for its renewable matrix, high coverage, and regional resilience. Demand is growing steadily and supply is gradually advancing, in a context ...

Using a dynamic and regionally disaggregated simulation model, this study examines whether Colombia could achieve a zero-carbon electricity supply by 2050.

Fossil fuels provided 35.6% of Colombia's electricity in 2024. Natural gas accounted for 16.8%, coal for 15.2%, and other fossil sources like oil made up 3.6%. Fossil generation continues to play a key role, ...

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 ...

Generation from natural gas rose by 8.8% y-o-y (+21.3 TWh), and generation from coal increased by 14.0% y-o-y. The shares of natural gas, coal and oil as a percentage of total electricity ...

Colombia's electricity mix includes 64% Hydropower, 14% Gas and 9% Coal. Low-carbon generation peaked in 2017.

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