

SolarTech Power Solutions

Ecuadorian heavy industry energy storage cabinet wholesaler



Overview

What type of energy does Ecuador use?

Ecuador's renewable energy is comprised of hydro power (5,419 MW), biomass (1550 MW), wind (71 MW), photovoltaic (29 MW), and biogas (11 MW). Hydroelectric power plants are in three regions: coastal (2 provinces), Andes (9 provinces), and Amazon (4 provinces).

How much electricity does Ecuador need?

Ecuador had a peak demand of 5,110 MW in May 2025, and according to CENACE, electricity demand grows by 360 MW every year. Ecuador's energy shortage could result in a recurrence of power outages, particularly in the dry season of September through December. Ecuador has added minimal generation in recent years.

Where does Ecuador's electricity come from?

Ecuador's state-owned electricity company, CELEC EP, imports electricity from neighboring Colombia. CELEC is also increasing diesel purchases from Petroecuador to power its thermal electric power plants. Ecuador had a peak demand of 5,110 MW in May 2025, and according to CENACE, electricity demand grows by 360 MW every year.

Why is Ecuador a good place to start a business?

Ecuador provides significant business opportunities in electricity generation, transmission, and distribution. Electricity demand continues to increase, and Ecuador urgently needs to increase generation capacity and accelerate investments to meet demand.

Why is Ecuador vulnerable to power disruptions in 2024?

Chronic underinvestment in the electricity sector has made Ecuador vulnerable to power disruptions. During a prolonged dry season in 2024, Ecuador's over-reliance on hydropower (78 percent of total generation)

resulted in daily blackouts of up to 14 hours, hurting economic activity.

Will Ecuador import natural gas?

Ecuador plans to accelerate the procedures to import natural gas to supply the largest thermoelectric plant in Ecuador, Termogas Machala, which works at 50 percent capacity.

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