

ContainerPower Energy Solutions

Ecuador outdoor mobile power box manufacturer



Overview

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.

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).

Will Ecuador get a nuclear power plant?

In May 2025, Ecuador became a member of the International Atomic Energy Agency (IAEA). The next step is to enact the legal framework to oversee and regulate nuclear energy. Only after the legal framework is in place could the Energy Ministry issue a public procurement for the first nuclear power plant in Ecuador.

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.

Will Ecuador build a new hydropower plant in 2025?

In 2025, the Government of Ecuador announced plans to build additional hydropower plant capacity in the West where rainfall is plentiful to offset

droughts in the East. The 254-MW Toachi Pilaton thermal plant (254 MW) came online in 2025, six years behind schedule.

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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