

## Kongres Container

# Ecuador outdoor power supply prices



## Overview

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How much electricity does Ecuador use per capita?

Per capita energy consumption is around 0.83 toe, a level 35% below the South American average (2021). Per capita electricity consumption is approximately 1 500 kWh. In its Electricity Master Plan 2018-2027, Ecuador estimated that its power capacity should increase by 4 GW by 2027 to face a 7%/year increase in electricity demand.

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).

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.

Will Ecuador's power capacity increase by 4 GW by 2027?

In its Electricity Master Plan 2018-2027, Ecuador estimated that its power capacity should increase by 4 GW by 2027 to face a 7%/year increase in electricity demand. These figures could reach 5 GW and 10%/year, respectively, in the prospective scenario of basic industrialisation (aluminium, copper, petrochemical).

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.

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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