

## SolarTech Power Solutions

# Ecuador s energy storage power exports



## Overview

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How is energy used in Ecuador?

Total energy supply (TES) includes all the energy produced in or imported to a country, minus that which is exported or stored. It represents all the energy required to supply end users in the country.

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.

Does Ecuador import electricity from Peru?

Ecuador has electricity transmission grid interconnections with Peru and Colombia. Historically, Ecuador imported electricity mainly from Peru to supplement its domestic supply. Electricity imports have declined since 2017 after the introduction of hydroelectric plants 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.

How has Ecuador's energy consumption changed over the years?

Ecuador's energy production increased by a compounded growth rate of 0.5% per year from 2011 to 2021, and renewables accounted for most of the increase. The country's energy consumption also increased by a compounded growth rate of 0.5% per year over the same period, down from 4.9% per year

the decade prior.

Why is hydropower a major source of electricity in Ecuador?

Hydropower in Ecuador is a significant source of electricity generation given the country's geographical features, such as the Andes Mountains and the Amazon rainforest. Hydropower accounted for 79.1% of total electricity generation in 2021, up from 55.4% in 2011.<sup>2</sup> Figure 1. Map of Ecuador Figure 2.

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