

# Energy storage projects under construction in Ecuador





## Overview

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When will Ecuador start constructing a solar power plant?

In 2023, the Energy Ministry released tenders for a 500 MW renewable block (wind, biomass, solar), 400 MW Natural Gas Combined Cycle Power Plant (CCCP), and a Northeast Transmission System to supply the Ecuadorian oil system. From these tenders, only the Villonaco project has started construction as of August 2025.

Will Ecuador's energy shortage cause a recurrence of power outages?

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. In 2020, the Energy Ministry awarded two projects to the private sector: a 110MW wind farm (Villonaco), and a 200MW solar plant (El Aromo).

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).

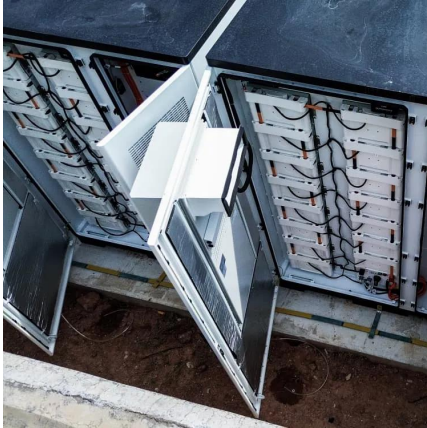
How much electricity does Ecuador need?

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.



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### Energy Storage Systems Project Results Presented for Ecuador

On July 11 and 12, we presented the results of our energy storage systems project for Ecuador, contracted by the World Bank. The event on April 11 saw the attendance of several notable ...

### Cox Group secures US\$700 million in concessions for solar, storage...

Jul 9, 2025 · Spanish utility Cox Group has secured concessions in Ecuador to develop eight renewable energy and infrastructure projects totaling over US\$700 million in investment. The ...



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Apr 20, 2025 · In the coming years, Ecuador is expected to continue investing in renewable energy projects, including wind, solar, and hydroelectric power. The government has set ...



## [Energy Storage Systems Project Results](#)

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## Latest Battery Energy Storage System (BESS) Projects in Ecuador

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## Supporting Ecuador's Energy Transition through an Energy Storage

Oct 16, 2025 · Introducing storage in the grid will allow the use of renewable energy while maintaining high reliability in the system. Storage can also improve the efficiency of Ecuador's ...





## Current Status and Development Potential of Household Energy Storage ...

Nov 20, 2024 · Ecuador's energy system has been facing significant challenges in recent years, particularly with the decline in hydropower generation caused by climate change and frequent ...

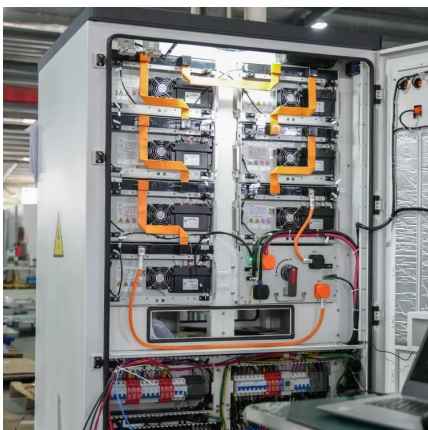


## Ecuador

Sep 2, 2025 · Private developers have experienced an increased demand for power generation projects for large private energy consumers. Ecuador plans to accelerate the procedures to ...

## Spatial national multi-period long-term energy and carbon ...

Nov 1, 2024 · The Republic of Ecuador is developing a comprehensive plan to meet the increasing residential, industrial, and commercial energy demands. With a popul...



## [Energy Storage Projects in Ecuador Powering a Sustainable](#)

Why Ecuador is Becoming a Hotspot for Energy Storage Solutions Imagine a country where rivers and sunlight are not just natural resources but the backbone of its energy future. That's ...



## Spain's Cox wins over USD 700m in concessions for solar, storage in Ecuador

Jul 1, 2025 · The awarded projects include over 600 MW of solar photovoltaic capacity hybridised with more than 1,200 MWh of battery storage, along with a new transmission line. Construction ...



### [Spain's Cox wins over USD 700m in ...](#)

Jul 1, 2025 · The awarded projects include over 600 MW of solar photovoltaic capacity hybridised with more than 1,200 MWh of battery storage, along ...

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