



MODERNIZATION SOLAR

# Ecuador wind solar and storage integrated project





## Overview

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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).

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.

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).

Can Ecuador add nuclear energy to its energy mix?

Ecuador is also exploring opportunities to add nuclear energy to its energy mix, though it has not allocated budgetary resources to this sector. Ecuador's nuclear energy plan contemplates a 300 MW small modular reactor in the medium term and a 1 GW reactor in the long term.



## Ecuador wind solar and storage integrated project



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### **Ecuador**

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## **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

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

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 ...



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

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