

# **Ecuador Nukualo home grid wind and solar energy storage**





## 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.

What is the Current PV energy capacity in Ecuador?

The latest report from the Agency of Electricity Regulation and Control (Agencia de Regulación y Control de Electricidad, ARCONEL) indicates that the current PV energy capacity in Ecuador is 27.63 MW . This number represents approximately 0.32% of the effective power produced by renewable and nonrenewable sources.

How important is installed power in Ecuador?

In the Ecuadorian case, the use of installed power is growing, with special attention to large power plants, as exemplified by the Coca Codo Sinclair project, with 1500 MW . Projects currently at risk of erosion that affect feed flows expose the fragility of a poorly diversified system.

Is it important to rely on fuels for electricity generation in Ecuador?

In Ecuador, it is not considered important to rely on fuels for electricity generation since there is a stable guarantee for sustainable energy; however, it cannot be ruled out that cost is an obstacle for RE .



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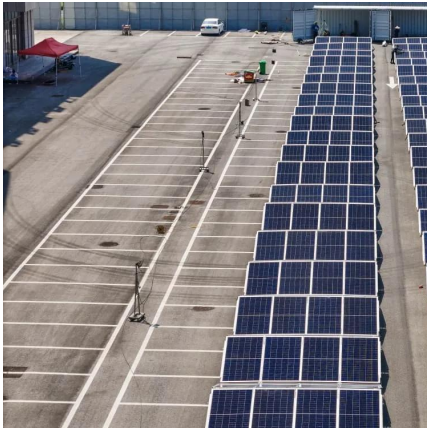
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