

# **Ecuador is using solar energy for air conditioning**





## Overview

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Does Ecuador use solar energy?

Despite this substantial solar potential in Ecuador, PV use remains marginal. 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 .

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.

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).

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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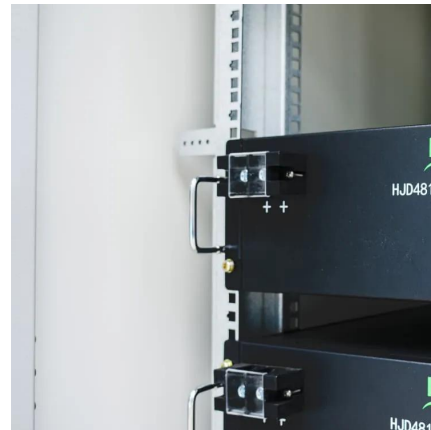


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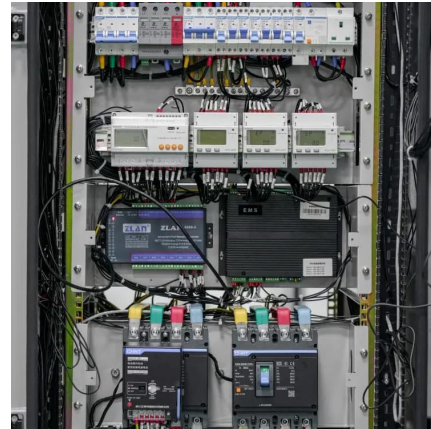
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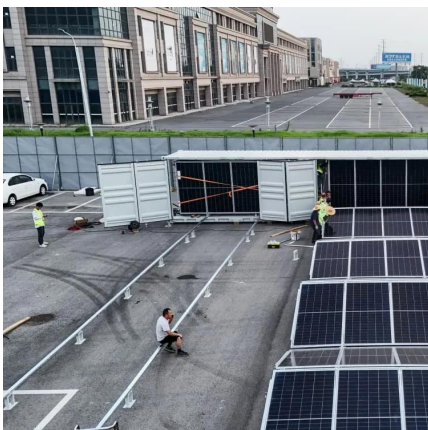
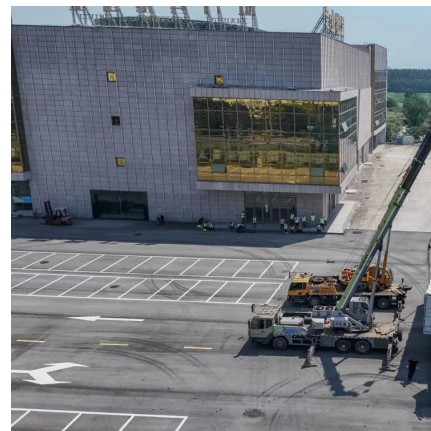
## Solar Air Conditioning Installation in Ecuador A Sustainable ...

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