

This PDF is generated from: <https://h2arq.es/Mon-04-Nov-2024-49914.html>

Title: Wholesale solar power station in Ecuador

Generated on: 2026-04-06 01:20:30

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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.

How much solar power does Ecuador have?

Ecuador's installed solar capacity stood at 28 Megawatts by the end of 2019. One year down the line, the government of Ecuador has implemented new solar projects. One of these projects worth mentioning is the El Aromo photovoltaic energy project expected to cover 2.9 km<sup>2</sup> of land.

How many gigawatts will Ecuador have by 2030?

The government of Ecuador plans to achieve an overall installed capacity of 4 Gigawatts by 2030. So, the project is the first of a series of planned solar projects. As a solar installer or professional, how do you decide whether a particular market is worth your time and money?

Where does Ecuador's electricity come from?

Ecuador's state-owned electricity company, CELEC EP, imports electricity from neighboring Colombia. CELEC is also increasing diesel purchases from Petroecuador to power its thermal electric power plants. Ecuador had a peak demand of 5,110 MW in May 2025, and according to CENACE, electricity demand grows by 360 MW every year.

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