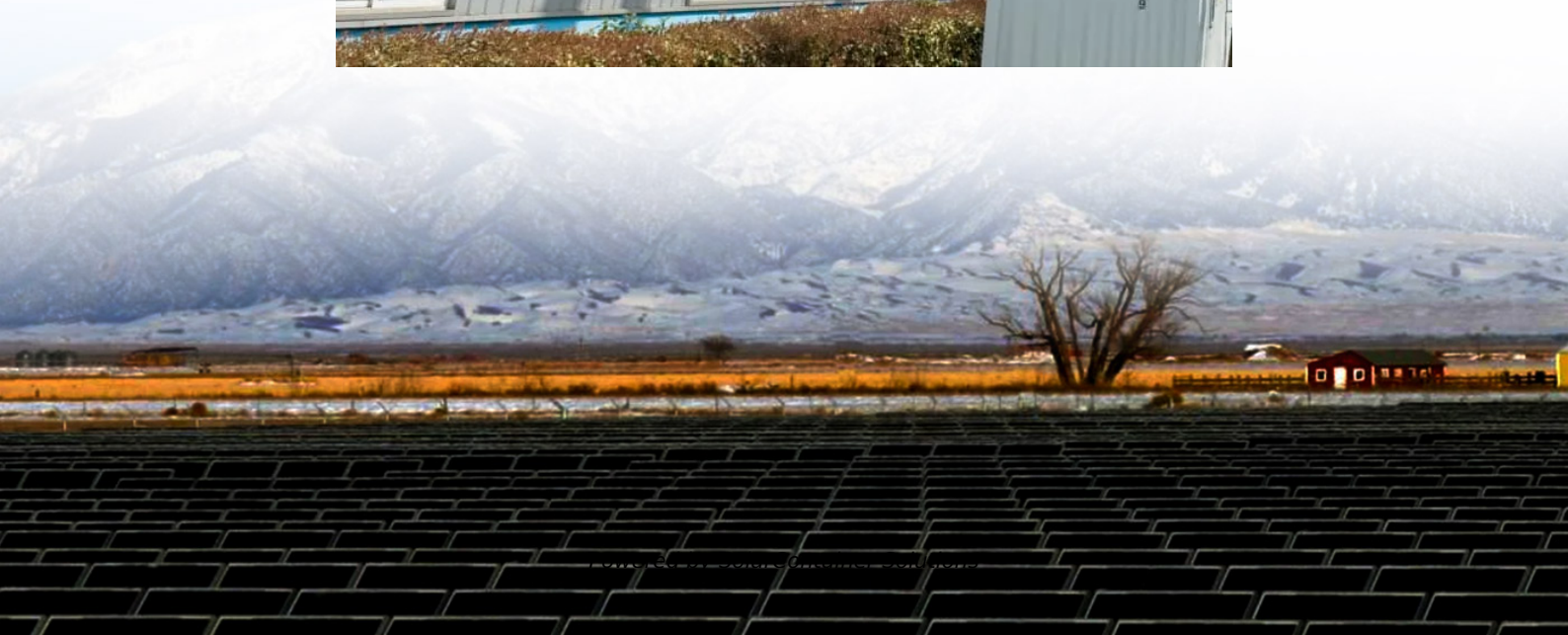


Ecuador containerized power generation supply





Overview

What is the generation capacity of Ecuador in 2020?

In Ecuador for the year 2020, the generation capacity registered in the national territory was 8712.29 MW of NP (nominal power) and 8095.25 MW of PE (Effective power). The generation sources are presented in Table 1. Table 1.

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.

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 there a potential for electricity generation in Ecuador?

Based on what has been described, it is identified that there is a high potential for electricity generation in Ecuador, especially the types of projects and specific places to start them up by the central state and radicalize the energy transition.

Does Ecuador rely on hydropower?

Ecuador's reliance on hydropower for electricity generation makes the country's power sector vulnerable to droughts and low water levels during the dry season, which generally runs from October to March each year. To compensate, Ecuador currently relies on oil-fired plants for non-hydroelectric



power generation.

What is the contribution of hydroelectric power in Ecuador?

This becomes an important strategic component within the Ecuadorian electricity production system. However, analyzed source by source, the greatest contribution is hydroelectric with 5064.16 MW of effective power of the total of 5254.95 MW, which implies 96.36% of the total renewable energy.



Ecuador containerized power generation supply



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Ecuador

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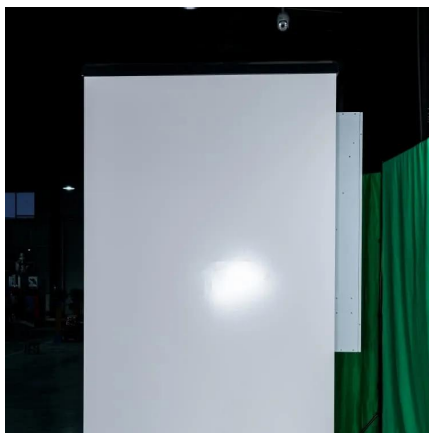
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Ecuador: Of the 1,200 MW that the Government had ...

The new generation that has been incorporated into the National Interconnected System (NIS) is the 100 MW barge Emre Bey, from the Turkish ...

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ECUADOREAN POWER SECTOR

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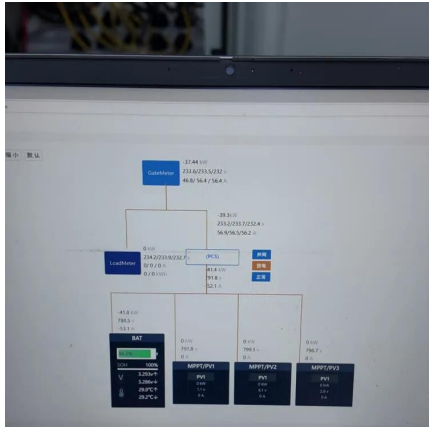
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Country Analysis Brief: Ecuador

To compensate, Ecuador currently relies on oil-fired plants for non-hydroelectric power generation. The government is committed towards converting old oil-fired plants into ...

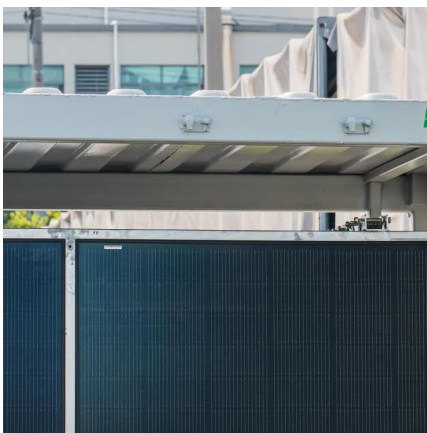
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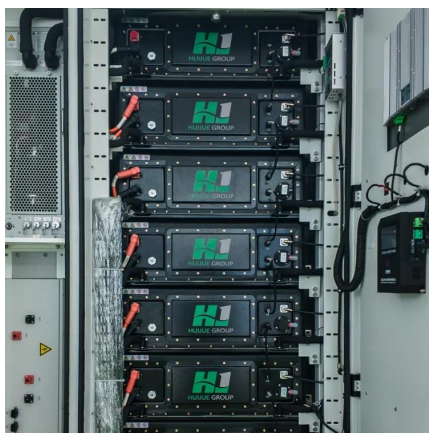
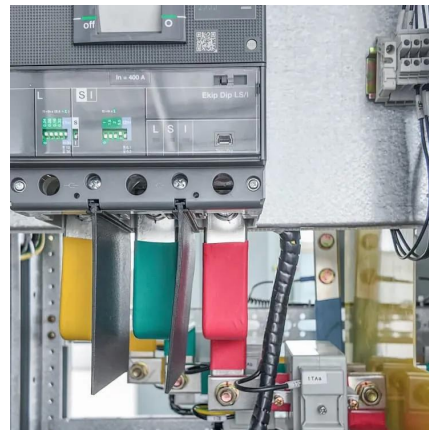




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Ecuador: Energy Country Profile

Ecuador: Many of us want an overview of how much energy our country consumes, where it comes from, and if we're making progress on ...

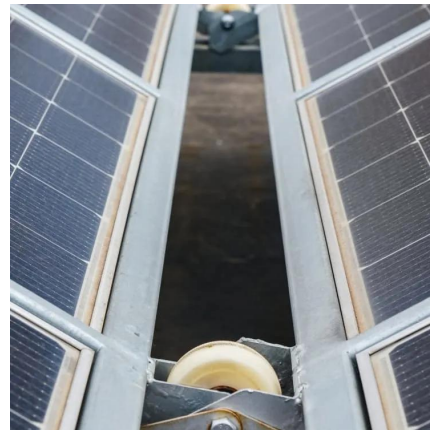
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