



# Ecuador krb power systems ltd

How much power does Ecuador need a year?

Electricity demand grows by 200 MW every year, meaning Ecuador should add 250 MW or 300 MW of new power generation each year. However, Ecuador has added minimal additional generation in the last three years.

Does Petroecuador use diesel to power its thermal power plants?

It is also increasing diesel purchases from Petroecuador to power its thermal electric power plants. The 1500 MW Coca Codo Sinclair hydropower plant generated 7,202 GWh in 2022 (22 percent of the 33,008 GWh of gross electricity generation).

Why is Ecuador unable to get electricity from Colombia?

Primicias reports that Colombia, typically a source of electricity imports to Ecuador during shortages, has also been grappling with its own drought-related electricity supply issues. Initially, Colombia covered 10% of Ecuador's electricity demand, but it later restricted sales due to its own drought problems, leaving Ecuador with limited support.

Why does Ecuador have a low electricity supply?

Officials in the electricity sector acknowledge that Ecuador is currently experiencing its most severe drought in the past 50 years, leading to historically low water supplies for power generation. Insufficient water flow and low tributary levels are falling below the necessary requirements for electricity production.

The Ecuadorian Government has launched a plan to contract 750 MW of electricity generation to tackle the low energy generation due to avoid power cuts during the country's dry season due to its dependency on hydro power.

The government of Ecuador, which is navigating a nationwide energy crisis with rolling blackouts scheduled to last until late next month, is taking drastic steps including daytime power outages to make do with the limited supply of electricity in the Andean country.

Roberto Luque, former Energy Minister and current Minister of Transport and Public Works announced that the barge the government will rent to address the electricity crisis is already in route to Ecuador, despite the contract not yet being signed.

Ecuador urgently needs to accelerate new investments in power generation capacity and diversify its electricity sources given a heavy reliance on hydropower. Electricity demand grows by 200 MW every year, meaning Ecuador should add 250 MW or 300 MW of new power generation each year.

Authorities are considering eight proposals from foreign companies, including the installation of generating



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barges and land-based electrical production systems, which would cost around \$160 million. There are 125 private electricity projects, with 70 using thermal energy, 27 hydraulic, 24 solar energy, three biomass, and one biogas.

Ecuador is the seventh largest electricity market in Latin America in terms of generation installed capacity (8,689.2 MW, Dec 2020), 58% corresponds to hydroelectric plants, 39% to thermal plants and 2% to non-conventional renewables (mainly biomass). In 2020 Ecuador's demand in the SIN was 24,580 GWh, with a peak annual demand of 3,933 MW.

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