

Wind solar storage cost vs benefit calculation in Ecuador

What are the energy policies in Ecuador?

Energy policies in Ecuador emphasize the need to diversify energy sources. In Ecuador, energy subsidies are a barrier to achieving a diversified energy mix. The hydroelectric resource compromises the implementation of renewable energies. The adoption of renewable technologies is conditioned to local factors.

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.

What barriers influence the expansion of PV energy in Ecuador?

Main barriers that influence the expansion of PV energy in Ecuador. Source: Authors. EB, economic barriers; PB, political barriers; SB, social barriers; TB, technical barriers.

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 energy does Ecuador need?

In 2017, the total energy demand in Ecuador was 105 MBOE1, and the total primary production in the same year was 222 MBOE . Of the total primary demand, 87% was for oil, 5% was for natural gas, and 8% was for RE (hydropower, firewood, cane products, WE, and PV). Dependence on fossil fuels has been maintained for over 40 years .

How much does electricity cost in Ecuador?

In Ecuador, the real cost of electricity production and distribution is USD 0.09/kWh and is reduced to USD 0.04 USD/kWh after the public subsidy . However, the calculated electricity prices for PV and wind technologies are 0.12 USD/KWh and 0.15 USD/KWh, respectively .



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