



Ethiopia s anti-dumping on energy storage





Overview

This paper has reviewed the global up-to-date status of PHES and Ethiopia's current energy situation and potential PHES. The objective of this paper is to show Ethiopia's potential for PHES and serve as a "Green Battery" for the East Africa Power Pool (EAPP).

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Ethiopia stands at a critical juncture in its energy journey. The country has ambitious plans to harness its vast renewable energy potential, reform its power sector, and achieve universal electricity access. While these goals offer tremendous opportunities, they also present significant.

The outlook consists of two sections: The Energy Landscape with a broad view on Ethiopian energy policy (chapter 2-5) and the Power Sector, with a model-based analyses of least-cost investments in expansion of the power system (chapter 6). The power sector analysis includes Ethiopia and 13 nearby.

However, due to its intermittent nature sustainable power supply depends on the proper energy mix and energy storage. By 2025, Ethiopia has planned to export 24 TWh of energy. Accordingly, its power generation is incorporating different RE sources dominated by hydropower. This paper has reviewed.

Ethiopia stands at a crossroads where vast renewable resources meet persistent infrastructural and policy challenges. Despite its bountiful potential—from hydropower and solar to wind—the nation struggles to translate these assets into reliable, widespread electricity. While extensive investments.

Ethiopia's commercial sector lost an estimated \$230 million in 2024 alone due to



grid instability [1]. With 68% of businesses relying on backup diesel generators [2], the environmental and economic costs are becoming unsustainable. But what if there's a smarter way to keep the lights on?

Are electric vehicles a viable alternative to fuel imports in Ethiopia?

Rapid adoption of electric vehicles (EVs) is reducing reliance on costly fuel imports while leveraging Ethiopia's renewable energy resources. Ethiopia has vast, largely untapped solar and wind resources, along with hydropower projects with strong economic potential.

Why is Ethiopia a critical juncture in its energy journey?

Ethiopia stands at a critical juncture in its energy journey. The country has ambitious plans to harness its vast renewable energy potential, reform its power sector, and achieve universal electricity access. While these goals offer tremendous opportunities, they also present significant challenges.

What is Ethiopia's energy strategy?

Ethiopia's energy strategy is strongly anchored in hydropower, but long-term resilience depends on accelerating the development of solar and wind energy. To avoid overreliance on a single source, the government must fast-track grid integration and enhance private sector participation through Independent Power Producer (IPP) schemes.

Why is Ethiopia not able to power the National Grid?

Conflicts in Sudan, South Sudan, Yemen, and Somalia are delaying Ethiopia's ability to strengthen energy cooperation with neighbouring countries and export electricity. Power generation to the national grid is already 100% renewable, with hydropower as the dominant source.



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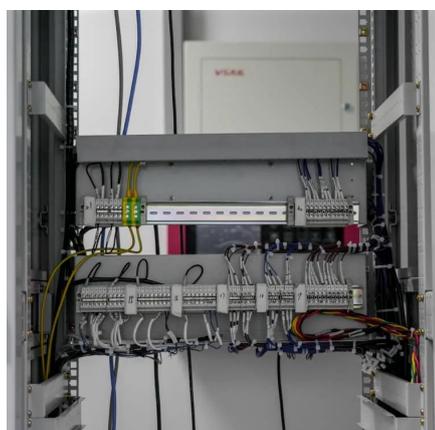
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