PDEOZE PowerContainer

Ethiopia Energy Storage Project 2025

Overview

How can the outlook contribute to the development of Ethiopian energy sector?

The Outlook has been developed in close coopera-tion with all partners with strong commitment, openness and good discussions. It is the ambition that the Outlook in the same way can contribute to the development of the Ethiopian energy sector. 1. Executive Summary.

What is the energy landscape like in Ethiopia?

Ethiopia’s energy landscape is at a critical juncture, presenting both significant opportunities and no-table challenges. The Government of Ethiopia has set ambitious policy goals, leveraging the country’s substantial renewable energy potential to drive transformative changes in the sector.

How much electricity does Ethiopia produce in 2040?

The share of so-lar in electricity generation reaches 17% in 2040. Ethiopia’s net electricity exports until 2036 will pri-marily be driven by large-scale hydropower invest-ments. However, net import of electricity is ex-pected from 2038, as the pace of demand growth in Ethiopia exceeds that of supply, in the least-cost development. See Figure 6.4.

What is the outlook for energy policy in Ethiopia?

The outlook is meant as a review of the current energy policy. The pur-pose is not to give detailed recommendations – but more to give a solid foundation for a discus-sion of key issues within energy policy. In the cur-rent outlook, also Ethiopian Electric Utility (EEU) and Petroleum & Energy Authority (PEA) are par-ticipating.

How important is electricity access to Eco-nomic development in Ethiopia?

Expanding electricity access is fundamental to eco-nomic development. While the current distribution grid covers only 25% of Ethiopia’s land area, 68% of

the population resides less than 5 km from the grid. This highlights the potential to triple the number of household connections within the foot-print of the existing grid.

How will EVs affect Ethiopia's energy sector?

The growing adoption of EVs will affect Ethiopia’s energy sector, particularly in terms of electricity demand and infrastructure development. A stable and sufficient power supply, combined with a well-planned and accessible charging network, is essen-tial to ensuring a smooth transition.

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With 65% of its population lacking reliable electricity access, this project combines cutting-edge battery storage systems with solar farms to stabilize the national grid.

With an installed generation capacity of 5,150 megawatts (MW) and an expected annual output of 15,700 gigawatt-hours (GWh), the GERD is set to generate more than $1 ...

To this end, in September 2025, Ethiopia took a historic step forward by signing nuclear power plant development action plan with Russia, marking Ethiopia's strategic ...

This comprehensive report provides a critical, fact-based analysis of Ethiopia's current energy landscape, identifying both challenges and emerging opportunities.

According to the International Energy Agency (IEA) around 80 GW additional energy storage capacity is needed worldwide by 2030 to meet the Sustainable Development Scenario (SDS) ...

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Rapid adoption of electric vehicles (EVs) is reduc-ing reliance on costly fuel imports while leveraging Ethiopia's renewable energy resources. Ethiopia has vast, largely untapped solar ...

The background to this decision is Ethiopia's high foreign currency expenditure for the import of petrol and diesel as well as the availability of low-cost electrical energy from hydropower from ...

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