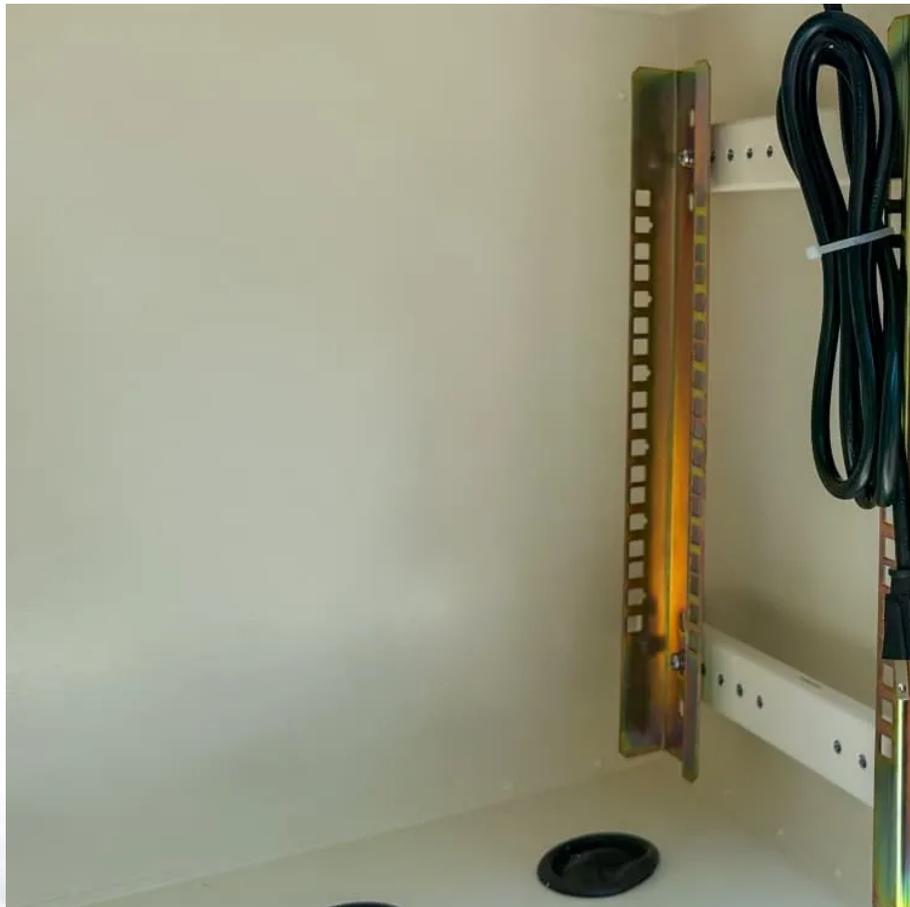


Centralized solar power generation with energy storage in Ethiopia





Overview

Is centralized hydroelectric power plant a viable option in Ethiopia?

The landform and scattered population in Ethiopia, especially in rural areas, makes the centralized hydroelectric power plants challenging and costly (Seboka, 2017). The construction of hybrid minigrids is considered as an effective method. Government of Ethiopia (GOE) is now diversifying the generation mix with other renewable sources.

Does Ethiopia have solar power?

According to the researches, Ethiopia is blessed with an abundance of sunlight, receiving an average of 5.5 to 6.5 kWh/m²/day throughout the year. This vast solar potential, coupled with declining costs of solar technology, provides a significant opportunity for the country to harness clean energy.

Can solar power transform Ethiopia's energy landscape?

Among these, solar energy emerges as a beacon of hope, poised to transform Ethiopia's energy landscape and drive socioeconomic development. Significantly, the country has relied heavily on hydropower, which accounts for more than 90% of its electricity generation.

Why should Ethiopia invest in solar energy?

As a signatory to the Paris Agreement, Ethiopia is committed to reducing greenhouse gas emissions and achieving carbon neutrality by 2030. The deployment of solar energy systems not only helps mitigate climate change but also supports the country's broader sustainable development objectives, including poverty alleviation, and economic resilience.



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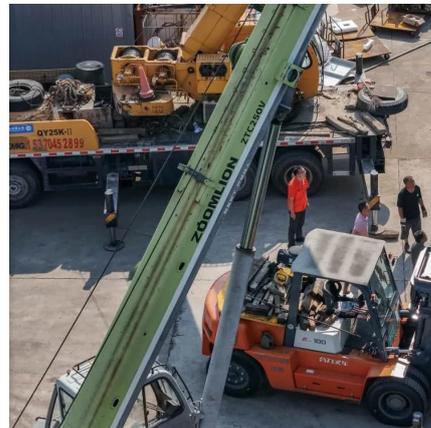
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Addis Ababa, August 13, 2025 (ENA) -- Ethiopia is uniquely positioned to leverage solar energy not only to meet domestic needs but also to become energy hub, State Minister of Water and ...

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