

# **Ethiopia Public Energy Storage Project**





## Overview

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Together with the Ethiopian Economics Association (EEA), the University of Addis Ababa (AAU), the Ministry of Water and Energy, and the Ministry of Foreign Affairs of Ethiopia, we are exploring cutting-edge solutions to one of Ethiopia's greatest development challenges: sustainable and reliable energy storage. Will Ethiopia's largest hydro-electric dam straddling the Blue Nile help electrify the country?

The vastness of the building site was at first overwhelming for the young Ethiopian mechanical engineer. Hundreds were already digging the foundations in tough conditions for what is now Africa's largest hydro-electric dam, straddling the Blue Nile. The dam will help electrify the country as well as provide power to the region.

Why is energy access important in Ethiopia?

Expanding access to energy across all regions of Ethiopia has also significantly improved the delivery and quality of essential services provided to the population.

How much energy will Ethiopia have if the dam is built?

Upon completion, the dam's electricity generation capacity is expected to reach 5,150 megawatts, a significant boost to Ethiopia's energy sector. In terms of water storage, the dam presently holds 42 billion cubic meters of water, a figure projected to increase to 74 billion cubic meters when construction is complete.

Can Ethiopia become a regional energy hub?

Beyond addressing domestic energy needs, the project positions Ethiopia to become a regional energy hub, fostering economic growth and cooperation. The GERD is being constructed to achieve an average annual energy production of about 15,760 GWH, featuring a 1,780 m long and 145 m high Roller Compacted Concrete dam.



## Does Ethiopia have universal energy access?

As part of the country's commitment to universal energy access, Ethiopia has made significant progress in recent years. By 2022, 55% of the population had electricity, a major improvement from just 20% in 2015. However, there is still a gap—while urban areas have a 94% electrification rate, many rural areas continue to struggle.

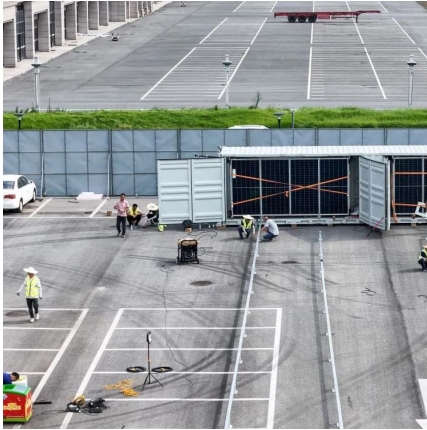
## Why is EV development important in Ethiopia?

Supporting the domestic development of EVs is crucial to Ethiopia's strategic goals after it last year became the first country in the world to ban all imports of fuel-powered vehicles. Measured by power generation capacity, the GERD is the 15th biggest hydro-electric dam in the world.



## Ethiopia Public Energy Storage Project

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### [Ethiopia Needs 80 Billion Birr to Complete Africa's ...](#)

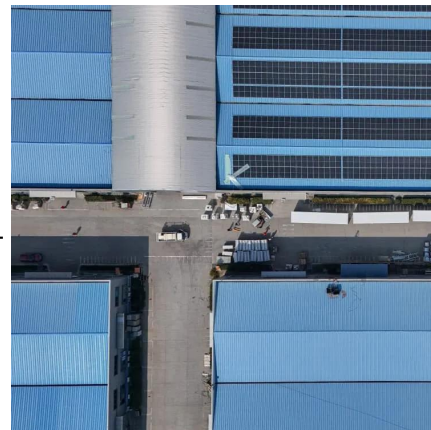
In terms of water storage, the dam presently holds 42 billion cubic meters of water, a figure projected to increase to 74 billion cubic meters when ...

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### Ev energy storage Ethiopia

The company sells electric vehicles, energy storage, and water purifiers. It has also introduced six models of imported rechargeable electric cars to the Ethiopian market, with a short-term plan ...

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### [Ethiopia Renewable Energy Market Analysis](#)

Market Overview Renewable energy is rapidly gaining importance worldwide as countries strive to reduce their dependence on fossil fuels and mitigate the ...

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### [Lighting Up Eastern Africa: How Greater Access to ...](#)

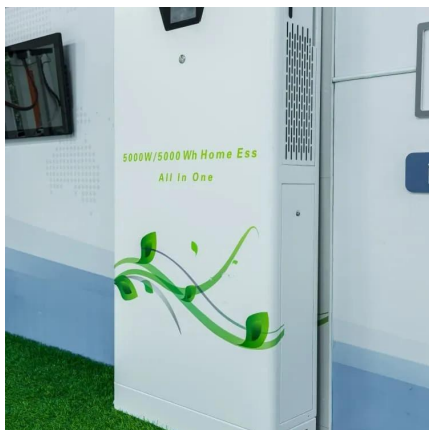
ELEAP has supported the installation of 11 mini-grids, bringing electricity to nearly 20,000 people





in isolated communities, promoting social ...

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## Ethiopia opens Africa's largest hydroelectric dam to Egyptian

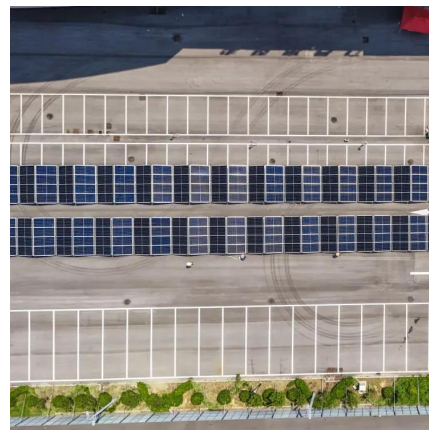
3 days ago· Ethiopia officially inaugurated Africa's largest hydroelectric dam on Tuesday, a project that will provide energy to millions of Ethiopians while deepening a rift with downstream ...

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## Ethiopian Energy Outlook 2025

Ethiopia's energy policy plays a crucial role in shaping the country's economy and the well-being of its population. This second Ethiopian Energy Outlook aims to support policy development ...

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## Why Ethiopia opening Africa's biggest dam sparks tension : NPR

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## Ethiopia opens Africa's largest hydro-electric dam, resisting years ...

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## Ethiopia Plans 10 More Nile Dams -- Here's What You Need to ...

Ethiopia Plans 10 More Nile Dams -- Here's What You Need to Know With GERD nearing inauguration, Addis Ababa is pivoting from a singular monument to a managed river ...

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## Ethiopia Needs 80 Billion Birr to Complete Africa's Biggest Dam, ...

In terms of water storage, the dam presently holds 42 billion cubic meters of water, a figure projected to increase to 74 billion cubic meters when construction is complete. Since ...

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## Pumped Hydro

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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## Ethiopia Dire Dawa Photovoltaic Energy Storage System Tender

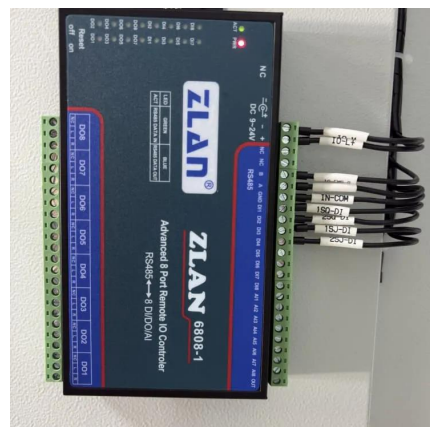
SunContainer Innovations - Summary: Ethiopia's Dire Dawa region has launched a major tender for a photovoltaic energy storage system, signaling growing opportunities in East Africa's ...

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## The Ethiopia Energy Project: A Strategic Partnership for Ethiopia...

Conduct a comprehensive feasibility study on applying iron powder storage in Ethiopia. Develop and implement pilot projects demonstrating the technology in real-world conditions.

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## [The Grand Ethiopian Renaissance Dam Project](#)

It utilizes the natural flow of Abay river and offers an environmentally friendly energy alternative. Beyond addressing domestic energy needs, the project positions Ethiopia to become a ...

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## Ethiopia

Ethiopia is the oldest independent country in Africa and one of the world's oldest - it exists for at least 2,000 years. The country comprises more than 80 ethnic groups and as many ...

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## [Ethiopian communities get solar energy systems](#)

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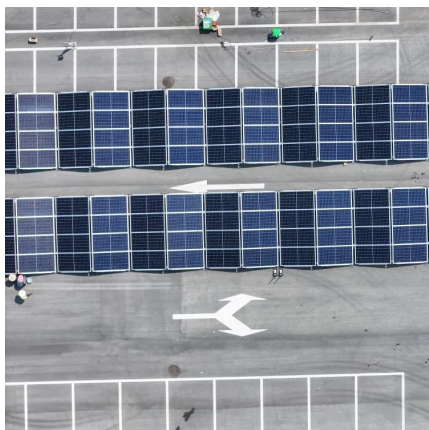




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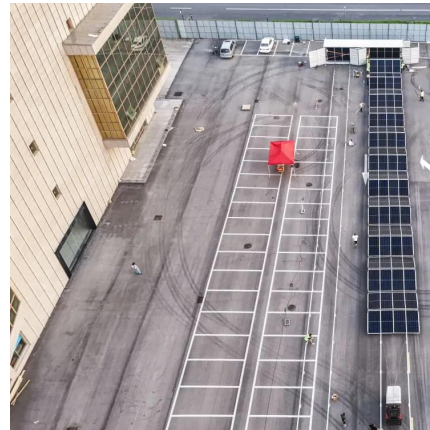




## Lighting Up Eastern Africa: How Greater Access to Energy is ...

ELEAP has supported the installation of 11 mini-grids, bringing electricity to nearly 20,000 people in isolated communities, promoting social and economic growth, and ...

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## Developing community energy systems to facilitate Ethiopia's ...

Using a comparative analysis of three multi-method, qualitative case studies, this paper argues that the political context poses the biggest obstacle to the development of ...

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## World Bank Document

However, these projects have mostly been commissioned in developed countries, despite it being clear that batteries can deliver substantial benefits in less developed countries. As shown in ...

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## Ethiopia , People, Flag, Religion, Language, Capital, Map, ...

Ethiopia, landlocked country on the Horn of Africa, the largest and most populous country in that region. It lies completely within the tropical latitudes. The capital is Addis Ababa ...

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## Ethiopia Maps & Facts

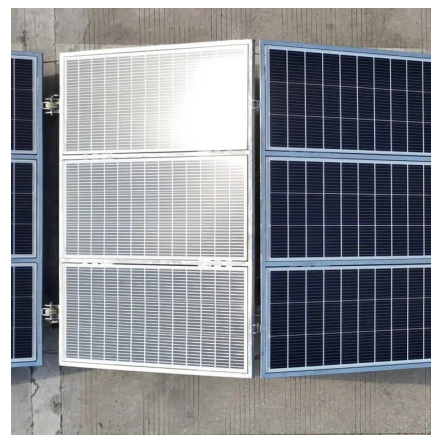
Ethiopia is a country in East Africa in the Northern and Eastern Hemispheres of the Earth. It is a landlocked country bordered by six countries. These are Eritrea, Djibouti, ...

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## Ethiopia

Externally, during the late 19th century, Ethiopia defended itself against foreign invasions, including from Egypt and Italy; as a result, Ethiopia preserved its sovereignty during the ...

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## Gerd: What it took for Ethiopia to build Africa's largest hydro

3 days ago · The pride of Ethiopia - What it took to build Africa's largest hydro-electric dam

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