

## ContainerPower Energy Solutions

# Current status of energy storage power stations in Uganda



## Overview

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What is Uganda's electricity generating capacity?

Uganda has over 1 346 MW of electricity generating capacity as of the beginning of 2023. This is a significant increase from the 320 MW in 2002. With the Karuma hydroelectric power plant expected to come fully online in 2023, Uganda will add a further 600 MW to its capacity.

Why are electricity grids important in Uganda?

With Uganda already facing bottlenecks in energy supply due to infrastructure, electricity grids are also critical for the country's energy transition. As grid connectivity rates increase, funds available for grid expansion should grow and recent reforms will enable greater private sector involvement in the transmission sector.

What is the main source of electricity in Uganda?

Over 80% of generating capacity is based on hydropower, most of the remainder is also renewable, including several solar photovoltaic (PV) installations and thermal power plants that burn sugar cane bagasse. While electricity represents only around 2% of Uganda's total energy consumption.

What are Uganda's energy access targets by 2040?

In its National Energy Policy 2023, the Ugandan government aims to reach universal access to electricity and 50% access to clean cooking by 2040.

Does Uganda still need electricity in 2021?

Electricity still accounted for less than 2% of Uganda's energy demand in 2021, despite electricity consumption growing more than fivefold over the last 20 years. Progress on electricity access has led to some of these changes, but large gaps remain. Access rates climbed from less than 5% in 2000 to roughly 45% in 2022. IEA. CC BY 4.0.

What are the main energy policies in Uganda?

Uganda has developed several subsectoral energy policies, including the 2008 National Oil and Gas Policy (currently under review), the Renewable Energy Policy (2007), and the Electricity Connections Policy (2018).

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