



**SolarTech Power Solutions**

# **Uganda mobile power station power generation**



## Overview

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Which projects have boosted Uganda's generation capacity?

He says that subsequent projects like the 200 MW Kiira Hydropower Station (2003) and the 183.2 MW Isimba Hydropower Project (2019) have further boosted Uganda's generation capacity. "The Karuma Hydropower Project is the latest and most ambitious step in our still ongoing energy evolution," Museveni commented.

How many substations does Uganda have?

As of the month of July 2024, Uganda's total grid length was marked at 4,496.4 km, with 42 substations and a transformation capacity of 6,945.5 MVA. Karuma is now the country's largest power installation and also stands as Africa's largest underground power plant.

How much power does Uganda have?

Hydropower still stands as Uganda's leading source of energy, having a total potential of more than 4,100 MW. Adding Karuma's 600 MW increases Uganda's generation capacity to 2,045.5 MW, far exceeding the current peak demand of between 900 MW and 1,000 MW.

What percentage of Ugandans have access to electricity?

Both grid and off-grid connections account for 42% of access to electricity in Uganda. The term grid connection refers to access to power through the national electricity grid. The Uganda National Household Survey 2019/2020 states that the Ugandan electricity grid reaches 18.9 % of Ugandans, mainly in urban areas.

How did Uganda get its hydropower?

President Museveni traced Uganda's hydropower journey back to the inauguration of the Owen Falls Dam in 1954, which laid the foundation for the country's energy sector. He says that subsequent projects like the 200 MW

Kiira Hydropower Station (2003) and the 183.2 MW Isimba Hydropower Project (2019) have further boosted Uganda's generation capacity.

Why should Uganda invest in hydropower?

It will significantly boost our power generation capacity, enhance energy security, and support sustainable development," said Dr Ruth Nankabirwa Ssentamu, the Minister of Energy and Mineral Development. Hydropower still stands as Uganda's leading source of energy, having a total potential of more than 4,100 MW.

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