

# The prospects of Kampala energy storage power station





## Overview

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How sustainable is the Kampala Metro?

The analysis shows that sustainability is plausible by optimizing the total primary energy supply, electrical power production from PV-solar & hydropower technologies, and switching 90% of passengers of the road category to the Kampala metro. 1. Introduction.

Why do we need hydropower & solar energy in Kampala?

Therefore, the sustainable energy portfolio for the Greater Kampala Metropolitan Area relies heavily on hydropower and PV-solar technologies for electrical power production because hydropower & solar energy are abundant in the GKMA, and their presence in the energy mix promotes SDG7.

Will electrified Kampala Metro reduce the consumption of fossil fuels?

The GKMA-TIMES model analysis shows that the consumption of fossil fuels in the transportation sector would reduce if management sets up an electrified Kampala metro and switches 90% of the passengers to the railway category.

Why does Kampala need an electrified Metro?

The metropolitan depends on imported refined petroleum through Mombasa, Kenya. Petroleum demand reduces by 45.21% when 90% of road passengers switch to the passenger railway category. Therefore, the construction of an electrified Kampala metro becomes the central focus for policy changes over the planning period. Figure 7.



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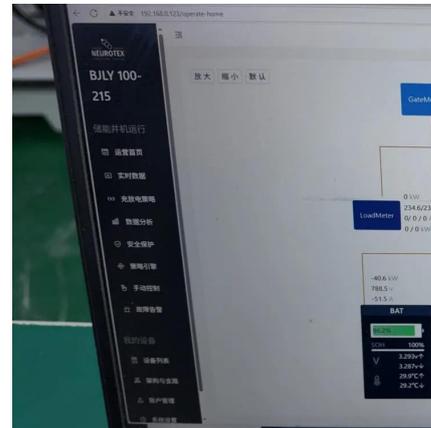


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