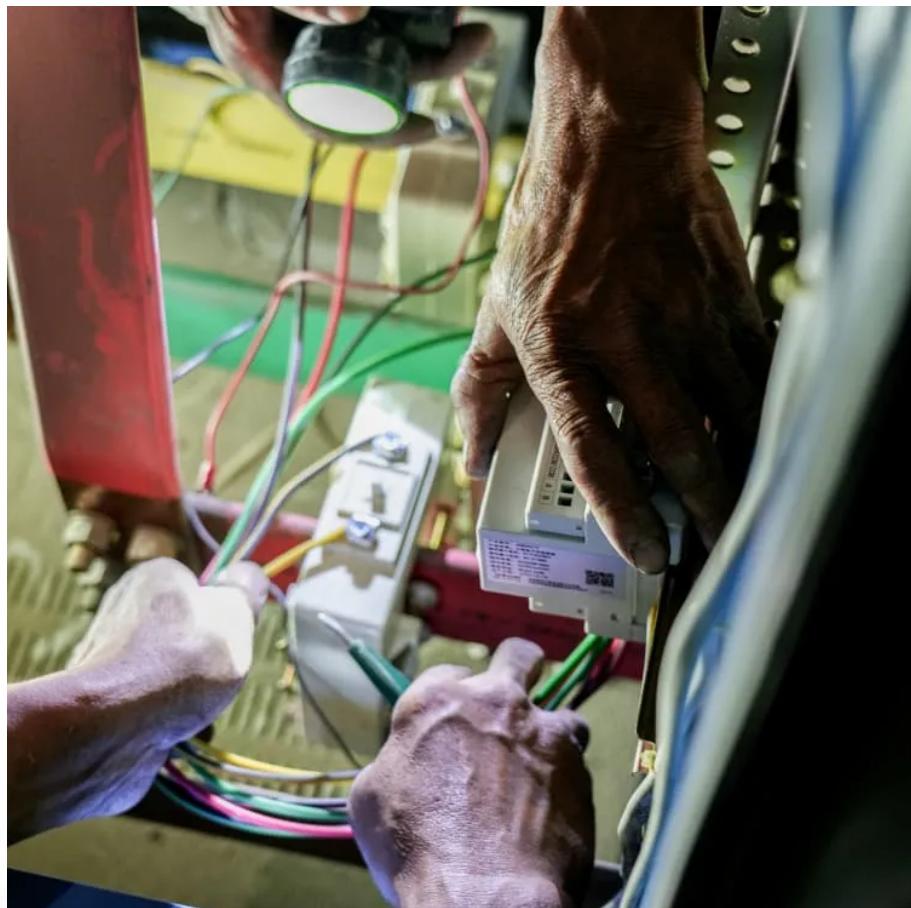




BUHLE POWER

# Kampala Civilian Solar Power Generation System





## Overview

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Does Kampala have solar power?

This is plausible because Kampala has a 2000 MW hydropower potential and is located astride the equator with 5.1 kWh/m<sup>2</sup> /day of solar energy incident throughout the year.

What is solar energy used for in Uganda?

Solar energy is used to generate electricity, heat water, and provide lighting in Uganda. It can also be used to power homes, hospitals, schools, and businesses. Solar energy is an ideal choice for rural areas in Uganda where access to electricity is limited.

What should be done to reduce energy consumption in Kampala?

At a macro level, emphasis should be on lowering the primary supply energy, reducing the usage of woody biomass & imported petroleum, investing in low-carbon electricity generation, and, more importantly, setting up the Kampala metro to switch most road passengers to the railway sector for sustainability.

Which scenario has a more aggressive carbon mitigation plan for Kampala?

The analysis in TIMES-VEDA was performed using constant US \$ 2015 prices. Kabejja, Carbon-Tax, and Lutta scenarios have a more aggressive carbon mitigation plan for Kampala than BAU. 3.4.2. The reference energy system (RES) A Reference Energy System (RES) was set up to represent the metropolis energy management system.



## Kampala Civilian Solar Power Generation System



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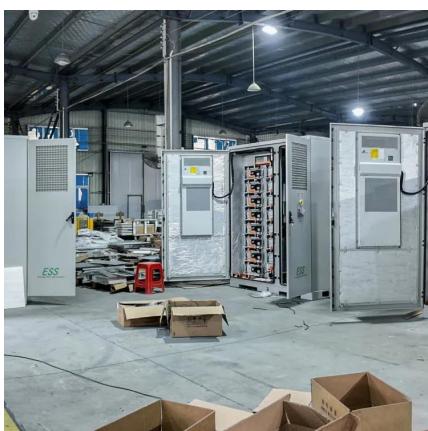


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## Energy scenarios for Greater Kampala Metropolitan Area ...

May 1, 2023 · The study assumes in all scenarios that advanced technologies, such as the use of LPG and low-carbon electricity for heating, PV-solar for power generation, hybrid vehicles, and

...



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The TBB backup power solution offers reliable backup power by utilizing both grid and solar energy for battery charging, unlike traditional UPS systems dependent on grid.

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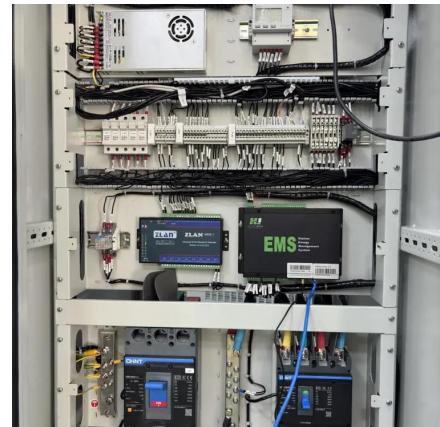
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