

## ContainerPower Energy Solutions

# Zambia Kitwe Residential Energy Storage Project



## Overview

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Kitwe, Zambia's mineral-rich hub, is now pioneering a new energy storage policy to address power shortages and support renewable energy adoption. This initiative positions Kitwe as a regional leader in sustainable energy solutions, attracting investors and tech innovators alike. Can battery storage be used with solar photovoltaics in Zambia?

The Zambian regulation foresees customs duty and VAT exemptions for most equipment used in renewable energy or battery storage projects. Detailed information is provided in In this section, we discuss the opportunity of battery storage in combination with solar photovoltaics from a financial point of view.

How much does a solar battery cost in Zambia?

Africa Clean Energy Technical Assistance Facility. (2022). Customs Handbook for Solar PV Products in Zambia. Bloomberg New Energy Finance. (2022, December 6). Lithium-ion Battery Pack Prices Rise for First Time to an Average of \$151/kWh.

Why should German and European service providers invest in Zambia?

For German and European service providers active in the energy sector, Zambia presents significant potential for business development. There are clear needs across the solar energy and storage value chain, including project development and financing, equipment manufacturing, system integration and contracting.

Why is there a shortage of electricity in Zambia?

Zambia currently faces a shortage of reliable electricity, due both to increasing demand and reduced hydropower generation caused by declines in precipitation linked to climate change.

What will Zambia's energy demand look like in 2040?

The government anticipates that peak demand will be at 8,000 MW by 2030

and 10,000 MW by 2040 (from around 3,000 MW in 2022). It also projects that the demand will be largely driven by mining and agricultural consumers and not residential consumers as projected in the COSS (Government of Zambia, 2022). 4. Zambia's renewable energy landscape.

Will the demand for power continue to rise in Zambia?

While the Zambian government accepts that the demand for power will continue to rise in Zambia, it has taken the view that the demand will be much higher than the 95% projected under the COSS.

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