



# 120kW mobile energy storage container for airport use in Senegal





## Overview

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The lithium-ion battery energy storage unit is the first battery-storage project in West Africa dedicated to frequency regulation and is designed to stabilize Senegal's grid and reduce blackouts.

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These mobile systems bridge gaps between solar/wind farms and urban/rural grids – think of them as "power banks on wheels." "A single 500kWh storage vehicle can power 200 households for 8 hours – that's transformative for off-grid communities." – EK SOLAR Project Manager In 2023, three storage.

Battery storage is technically and economically more competitive than conventional spinning reserve technologies. Combining photovoltaic solar with a storage system is a unique solution to meet the current and future needs of the grid. In order to complement and intensify our local impact, Walo.

Described as a first for West Africa, a solar PV installation with battery storage project dedicated to frequency regulation has been commissioned in Senegal. The Walo Storage project in Bokhol is already connected to the National Electricity Company of Senegal's (Senelec) grid to help regulate.

The Walo Storage facility, commissioned on July 14th, represents West Africa's first solar power plant integrated with battery storage specifically for grid frequency regulation. A key feature of the Walo Storage facility is its ability to provide critical stability and backup power during outages.

Senegal's solar capacity grew 300% between 2018-2023, but here's the catch – sunlight isn't 24/7. Our containerized systems act like "energy batteries on wheels," storing excess solar power for night use or cloudy days. The International Renewable Energy Agency (IRENA) reports that mobile storage.

The potential for energy storage solutions in Senegal, including battery storage and pumped hydro storage. Potential for Energy Storage Solutions in Senegal: Battery Storage and Pumped Hydro Storage Senegal's energy sector is undergoing



significant transformation, driven by the need to integrate.



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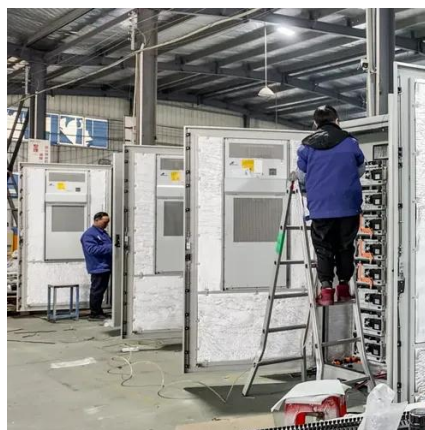


### Walo Storage

The community's involvement and adhesion are reinforced by the actions already carried out within the Senergy 2 project, located in the immediate vicinity of Walo Storage.

### Senegal: Solar + storage project leads the way in West Africa

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### A New Era for Senegal's Energy Landscape - BulBat

By combining photovoltaic generation with lithium-ion batteries, the facility delivers 13 MW of power for frequency support and emergency supply. This technology not only ...



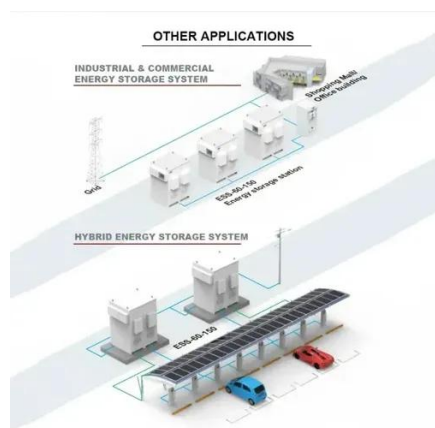
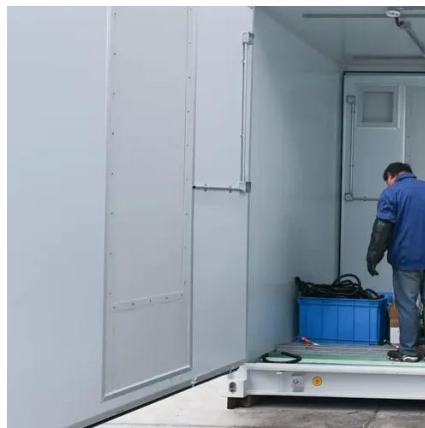
### **With the Launch of Walo Storage, a New Era Begins for Senegal's Energy**

The installation facilitates the increasing integration of solar energy while avoiding the





emission of 26,600 tons of CO<sub>2</sub> annually--the equivalent of the yearly emissions of over ...



## Large Energy Storage Vehicles in Senegal: Powering Sustainable ...

Summary: Discover how Senegal's energy storage vehicle industry is transforming renewable energy adoption, reducing grid instability, and supporting economic development. Learn about ...

## SENEGAL CONTAINER ENERGY STORAGE SYSTEM

The lithium-ion battery energy storage unit is the first battery-storage project in West Africa dedicated to frequency regulation and is designed to stabilize Senegal's grid and reduce ...



## With the Launch of Walo Storage, Energy Innovation Emerges

With the launch of Walo Storage, Senegal's energy sector enters a new era of sustainable solar power and reliability.



## The potential for energy storage solutions in Senegal, including

Energy storage solutions, particularly battery storage and pumped hydro storage, are emerging as critical components in this transition. This analysis delves into the potential, advantages,



### Walo Storage

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### Senegal Container Energy Storage Vehicle Manufacturer: ...

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### Construction Starts at Walo Storage Project in Senegal

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## Contact Us

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