



# Energy storage frequency regulation on the power generation side in Senegal





## Overview

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The developer claimed it is the first battery storage project in West Africa dedicated to frequency regulation, and will provide stability to the local grid in the face of limited spinning reserves and intermittent renewable generation. Africa REN announced the €32 million (US\$35 million) financing agreement with Dutch development bank FMO and. 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. Dubbed Walo Storage, the EUR-40-million (USD 46. Hybrid project combines 10 MW battery storage with an existing 16 MW solar power plant.



## Energy storage frequency regulation on the power generation side in



### Senegal Inaugurates Walo Storage: West Africa's First Grid-Forming

Walo Storage replaces this with a "Virtual Spinning Reserve": the batteries inject power in milliseconds to stabilize the grid frequency, allowing thermal plants to be switched off.

### Press Release With the Launch of Walo Storage, a New Era ...

designed for frequency regulation and to meet local energy needs in the event of grid loss. Delivered on time, the Bokhol site is already connected to Senelec's grid



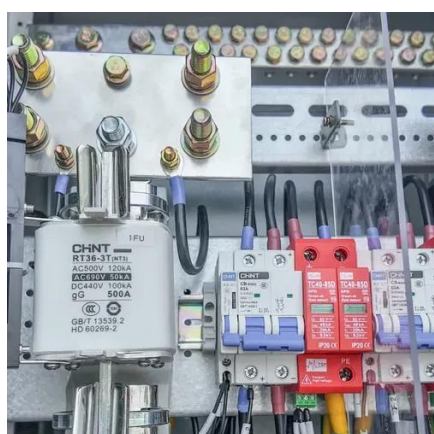
### **A New Era for Senegal's Energy Landscape - BulBat**

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.



### **SENEGAL WEST AFRICA'S "FIRST FREQUENCY REGULATION"**

The project adopts supercapacitor hybrid energy storage assisted frequency regulation technology, consisting of 60 sets of 3.35 MW/6.7 MWh battery energy storage systems and 1 set of 3 MW/6 ...

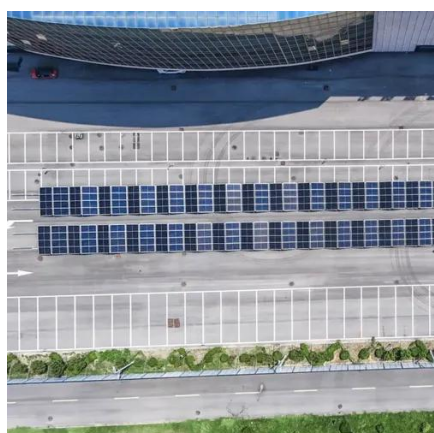


## [With the Launch of Walo Storage, Energy Innovation Emerges](#)

Delivered on time, the Bokhol site is already connected to Senelec's grid to help regulate frequency and secure electricity supply for millions of Senegalese people.

## [Africa REN commissions Senegal's first grid stability battery storage](#)

First battery energy storage system in West Africa purpose built for frequency regulation and grid stability. Hybrid project combines 10 MW battery storage with an existing 16 MW solar ...



## [Senegal: West Africa's 'first frequency regulation' BESS financed](#)

The developer claimed it is the first battery storage project in West Africa dedicated to frequency regulation, and will provide stability to the local grid in the face of limited spinning reserves ...

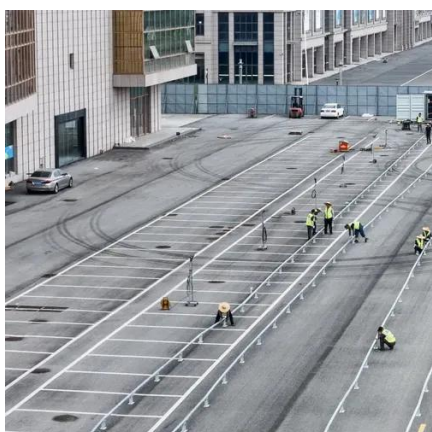
## [Africa REN secures EUR32M to fund](#)



## [energy storage project in Senegal](#)

The project, which is hailed as a major breakthrough for West Africa, is the first battery-storage project in the area dedicated to frequency regulation. Senegal faces grid capacity challenges

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## [Africa REN powers up solar-plus-storage plant in Senegal](#)

West African independent power producer Africa REN has commissioned a 16-MW solar farm with 10 MW/20 MWh of battery storage in Bokhol, northern Senegal, hailing the project as the ...



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