

Energy storage power station put into operation in Senegal





Overview

Independent power producer, Africa REN, has commissioned a 20MW of solar PV power plant with a 10MW/20MWh battery energy storage system (BESS) in Senegal. Named the Walo Storage project, it marks West Africa's first solar installation with dedicated energy storage for frequency regulation. When will a battery energy storage system start in Senegal?

Construction of the battery energy storage system is expected to commence in early 2024 at the Tobène substation in Thies and is expected to become operational in 2025. Once complete, it will be one of the largest of its kind in West Africa, and will help Senegal to avoid approximately 37,000 tonnes of carbon dioxide emissions each year.

How will the energy system work in Senegal?

The system will utilise reserve energy when there are deficits, bring power and grid assets online after failures, and supply electricity to the cities in the northern part of Senegal during power outages.

Why is battery storage important in Senegal?

Battery storage offers incredible opportunities for Senegal to reap the benefits of renewables, while ensuring people get a secure, reliable supply of energy. We are excited to begin a promising new chapter in Senegal and further strengthen our work in the renewable energy sector.”.

How much energy has Senegal added in 6 years?

Within 6 years, Senegal has added more than 345MW of clean power, accounting for nearly a quarter of its energy mix. This is a concrete example of the impact of policy implementation prioritising progress towards net-zero and accelerating energy access to above 70%, the 12th highest in Africa.

How will eaif support Senegal's Clean Power Project?

EAIF acted as co-lender alongside the Dutch development bank FMO, to



support the development of the €42m landmark project. A Euro equivalent US\$1.5m capital grant extended by PIDG Technical Assistance will ensure the project is designed to maximise supply of clean power to Senegal's grid, whilst remaining economically viable.

Where is a Bess project being built in Senegal?

The BESS is to be built at the Tobène substation in Thies, Senegal. It will be operated by Infinity Power's 158.7 MW wind farm in Senegal, Parc Eolien Taiba N'Diaye (PETN)



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

Dubbed Walo Storage, the EUR-40-million (USD 46.6m) solar-plus-storage plant entered commercial operation on July 14, Africa REN said on ...

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[West Africa's first-of-its-kind frequency regulation BESS online](#)

IPP Africa REN has commissioned a solar and storage project in Senegal, which it claimed as the first of its kind in West Africa.

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[Construction Starts at Walo Storage Project in Senegal](#)

The lithium-ion battery energy storage unit is the first battery-storage project in West Africa dedicated to frequency regulation and is ...

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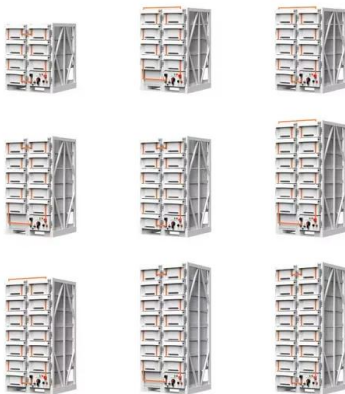


[China's First Domestic Market Share Storage Power Station ...](#)

China's first market-run (grid-side) Shared energy storage power station was built in German city, Haixi Mongol and Tibetan autonomous prefecture of Qinghai province on ...



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[Infinity Power seals 20-year agreement with Senelec to supply ...](#)

Construction of the battery energy storage system is expected to commence in early 2024 at the Tobène substation in Thies and is expected to become operational in 2025. ...

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[60MW Battery Energy Storage System in Progress in ...](#)

Axian Energy is developing the Kolda solar project in southern Senegal, scheduled for completion in 2026. The 60 MW system will supply ...

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[Senegal: Senelec contracts Infinity Power for 160MWh battery](#)

The national electric utility of Senegal, Senelec, has signed a 20-year CCA with Infinity Power for a battery energy storage project.

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[Configuration and operation model for integrated](#)

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Considering the lifespan loss of energy storage, a two-stage model for the configuration and operation of an integrated power station system is ...

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Our Lifepo4 batteries can beconnected in parallels and in series for larger capacity and voltage.



[60MW Battery Energy Storage System in Progress in Senegal](#)

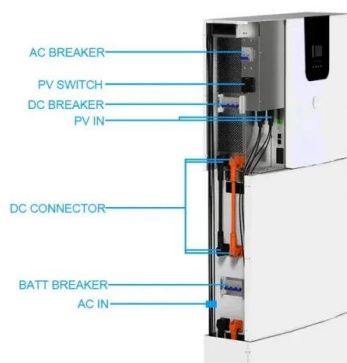
Axian Energy is developing the Kolda solar project in southern Senegal, scheduled for completion in 2026. The 60 MW system will supply power to about 235,000 people in ...

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[EAIF COMMITS EUR11.5 MILLION TO WEST AFRICA'S FIRST...](#)

Africa REN will construct and operate the facility under a 20-year power purchase agreement (PPA) designed to solve issues associated with intermittent energy supply, a key challenge of ...

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[Two Million-KW Power Stations Put into Operation in Greater Bay ...](#)

The Meizhou Pumped Storage Power Station and Yangjiang Pumped Storage Power Station in South China's Guangdong Province were put into operation on May 28. Their ...

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[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.

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[China switches on first large-scale sodium-ion battery](#)

"China has put into operation the first large-scale storage station with sodium-ion batteries, marking a new era for low-cost batteries for large ...

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[Haiti Houqiao Energy Storage Power Station: The Caribbean's ...](#)

Why This Station Matters to Energy Nerds and Coffee Farmers Alike a Haiti Houqiao Energy Storage Power Station operator sips Haitian coffee while monitoring enough stored energy to ...

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[Senegal, Africa REN Launch Walo Solar-Plus-Storage Facility](#)

Senegal and sustainable infrastructure developer Africa REN have commissioned the Walo Storage facility in Bokhol, marking the first grid-connected solar-plus-battery ...

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[Sénégal : Africa REN lance un projet de stockage d'énergie ...](#)

Le développeur de projets d'énergies renouvelables en Afrique subsaharienne, Africa REN, a annoncé dans un communiqué du 16 juillet le démarrage de la construction de ...

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

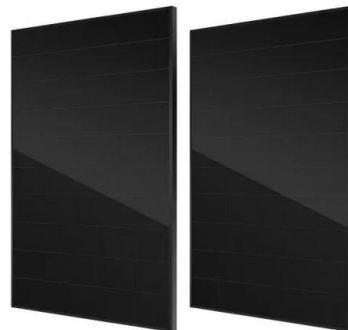
Dubbed Walo Storage, the EUR-40-million (USD 46.6m) solar-plus-storage plant entered commercial operation on July 14, Africa REN said on Wednesday. The project was ...

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[World's largest pumped storage hydropower plant in ...](#)

A drone photo taken on Dec. 31, 2024 shows the underground workshop of Fengning pumped-storage power station in Fengning Manchu Autonomous ...

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[Axian Energy begins construction of 60 MW solar ...](#)

Axian Energy has initiated construction of the NEA Kolda solar power plant, located in Tankanto Escalé in the Kolda region of southern Senegal. The ...

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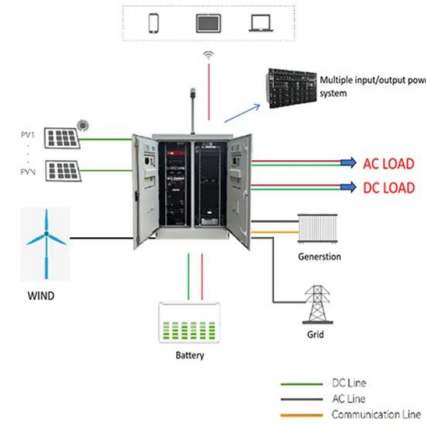




Senegal , Africa Energy Portal

Gas production from Sangomar will provide the energy needed to power a plant with a capacity of between 350 and 590 MW, while the St. Louis offshore block could power a 250 MW plant. To ...

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[The largest single grid type energy storage project in China is](#)

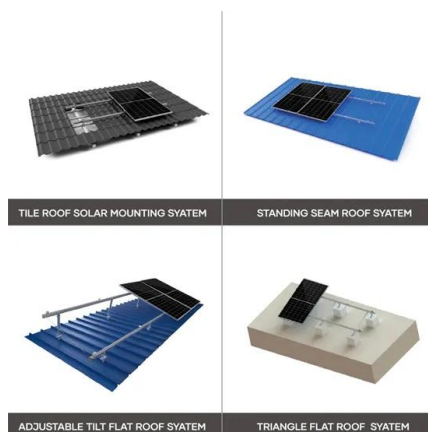
Compared with the same thermal power generation capacity, Xinhua Wushi energy storage project can save 150,000 tons of standard coal and reduce carbon dioxide emissions ...

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[Construction Starts at Walo Storage Project in Senegal](#)

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 ...

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Renewable energy company Africa REN has started construction of the Walo Storage project - a lithium-ion battery energy storage system ...

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Le développeur de projets d'énergies renouvelables en Afrique subsaharienne, Africa REN, a annoncé dans un communiqué du 16 juillet le ...

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[Senegal commences operation of first Africa's LNG-to-Power project](#)

Senegal's national utility Société nationale d'électricité du Sénégal (Senelec), in partnership with Turkish energy firm Karpowership, have officially launched the country's first ...

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