

Energy storage industry dakar

Energy Resources Senegal (ERS) and Climate Fund Managers (CFM) have entered into an agreement to jointly build a solar-plus-storage plant in Niakhar, a town located about 150km east of the Senegalese capital Dakar. ERS is an energy developer that has the state-owned utility of Senegal as one of its major shareholder. CFM is a global investment group that funds projects related to renewable energy and sanitation.

The solar-plus-storage plant in Niakhar will be the first of its kind in the country. This large-scale energy project will integrate 30MW of photovoltaics with 15MW/45MWh of battery storage.

ERS will assume the responsibilities of development, construction, ownership, and operation of the solar plus-storage plant. CFM will provide consultation on technical, environmental, and social issues.

Sebastian Surie, CFM's regional head for Africa, said that CFM looks forward to working closely with ERS to build the first solar-plus-storage plant in Senegal. Surie also noted that ERS have many impressive projects that are under development and in line with CFM's mission. Once up and running, the solar-plus-storage plant in Niakhar will provide clean and renewable electricity to more than 150,000 households in the surrounding region.

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The project will increase the current spinning reserve by 40% and will provide additional services such as frequency control, island functioning and Black-Start capability.

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.

The actions carried out during the construction of the project and during the 20 years of operation will be monitored by a Committee that brings together all local stakeholders to ensure total transparency on the commitments made.

Senegal's state utility Senelec has signed a 20-year capacity change agreement with Egyptian/UAE developer Infinity Power to supply a 40 MW battery energy storage system (BESS) at the Parc Eolien Taiba N'Diaye (PETN) wind farm.

Situated 70km north of Dakar, the wind farm achieved completion in 2021, currently contributing 158.7MW of power. The BESS is anticipated to supply 175 MWh of energy, encompassing approximately 45 shipping containers measuring 40 feet each. When fully charged, the system is projected to discharge its 40 MW

capacity for over four hours. Its primary function is to optimize wind energy utilization within the power grid, offering ancillary services like frequency regulation, reactive power support, and efficient energy charge and discharge.

The United States Trade & Development Agency (USTDA) provided funding for the project's feasibility studies and analyses. Norway's DNV, which played a role in developing the PETN wind farm, conducted a feasibility study for the BESS. The construction is slated to commence in early 2024 at the Tobene substation in Thies, with operational activities expected to commence in 2025.

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Web: <https://www.hollanddutchtours.nl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

