



Solar storage guinea

Guinea, a nation in West Africa, has long faced challenges in providing electricity to its population. With only around 30% of its people having access to electricity, the country has been actively seeking sustainable solutions to enhance energy access while reducing reliance on fossil fuels. Among the promising strategies gaining momentum is the deployment of photovoltaic (PV) mini-grids.

Aptech Africa, a leading renewable energy solutions provider, recently executed a significant project in Guinea, comprising the design, supply, installation, and commissioning of two PV mini-grids. These installations, sized at 103.4kWp and 21.45kWp, incorporate battery bank storage capacities of 192kWh and 33.6kWh, respectively.

In Bolodou, a centralized solar PV power plant with a remote monitoring system was established, integrating data collection functionalities for energy measurements, consumption data, and alarms. This system was hybridized with an existing hydroelectric plant, facilitating seamless interconnection with the micro-hydro electrical grid. Similarly, in Thianguel Bori, a centralized off-grid solar PV power plant was deployed alongside an electricity distribution network, connecting a sample of 10 users to the grid.

The implementation of these systems not only benefits the communities in Bolodou and selected users in Thianguel Bori but also promises significant socio-economic advantages. By bolstering energy access for the population and supplying power to local authority offices and schools, the initiative is poised to foster community development and empowerment. The installations feature advanced inverters from Victron and Fronius, including SYMO-20 and quattro models, ensuring efficient and reliable operation for long-term sustainability.

The Khoumagueli Solar Power Station is a 40 MW (54,000 hp) solar power plant under development in Guinea. When completed, it is expected to be the largest grid-connected, privately funded solar power plant in the country.[1]

The power station is located near the town of Linsan in the Kindia Region, in the central-western part of Guinea.[2] Linsan is located about 370 kilometres (230 mi) by road, north of Kindia, the regional capital.[3] Linsan is approximately 472 kilometres (293 mi), by road, northeast of Conakry, the capital and largest city in the county.[4]

The power station has a 40 megawatt capacity. Its output is intended to be sold directly to Electricit? de Guin?e (EDG), the state-owned electricity utility company, for integration into the national electricity grid. The 25-year power purchase agreement was signed to that effect in May 2021.[5]

Construction of this renewable energy infrastructure project is intended to meet several objectives. The



Solar storage guinea

primary objective is to increase the quantity and reliability of power in the country. Khoumagueli is expected to deliver 40 megawatts of power without any carbon dioxide emission.[1]

The power station is under development by a consortium of InfraCo Africa, through its contracted developer, Aldwych Africa Developments Limited, Solv?o International Investments SARL and its two subsidiaries, Solv?o Energie S.A.S. and Solv?o Guinea Renewable Energy SA.[1]

The consortium has established a special purpose vehicle company that will own, construct, operate and maintain the power plant. The special purpose company is called Khoumagueli Solar SA.[5] The table below illustrates the shareholding in Khoumagueli Solar SA.[6]

Contact us for free full report

Web: https://www.sumthingtasty.co.za/contact-us/ Email: energystorage2000@gmail.com WhatsApp: 8613816583346

