

PEES Power Systems

Major energy storage projects in Nigeria



Overview

Below is a list of Eauxwell's five largest solar PV projects and largest battery energy storage systems (BESS) in Nigeria, followed by a comparison with other major solar EPC players, highlighting Eauxwell's pivotal role in the country's energy transition. Nigeria's energy transition in 2025 is no longer being defined by incremental megawatts added to the national grid. Instead, it is being driven by a quieter but more consequential shift: the rise of decentralised, storage-backed power systems engineered for reliability, autonomy and economic. However, the International Renewable Energy Agency's (IRENA) "Renewable Energy Statistics 2024" report indicates Nigeria had only 35 MW of installed solar PV capacity by the end of 2023, compared to South Africa's 3,500 MW. High upfront costs and grid limitations hinder widespread adoption. Kaduna Electric has signed an agreement to develop a 100 MW solar project with battery storage to strengthen electricity supply across Kaduna, Sokoto, Zamfara and Kebbi states in northern Nigeria. The announcement was made during the inaugural workshop for the BESS feasibility. Nigeria, a country plagued by persistent power challenges, is quickly becoming a game changer in energy storage. In particular, the popularity of solar photovoltaics (PV) combined with batteries has skyrocketed. This includes hospitals, universities and industrial and commercial clients. Over that time, we've deployed and are now developing over 500 MWh of battery.

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Energy storage is missing link in Nigeria's renewable energy dream

In this interview, she unpacks policy gaps, breakthroughs needed for Nigeria's green transition, the role of IoT, energy storage, and smart grids in stabilising Africa's power supply.

Battery Energy Storage Growth in Nigeria , Solar Streetlights to C& I

Discover why battery energy storage is booming in Nigeria -- from solar streetlight projects to commercial and industrial (C& I) energy systems. Explore trends, opportunities, and infrastructure

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114KWh ESS



ISO 9001 ISO 14001 PICC RoHS CE MSDS UN38.3 UK CA IEC

AfDB Grants \$1.2M for Nigeria's Battery Energy Storage Study

"The feasibility study being inaugurated today will provide a detailed technical, regulatory, financial, and environmental analysis of the deployment of battery energy storage systems in



Nigerian utility signs 100 MW solar-plus-storage agreement

Kaduna Electric has signed an agreement to develop a 100 MW solar project with battery storage to strengthen electricity supply across Kaduna, Sokoto, Zamfara and Kebbi states in northern



Energy Storage Innovations Driving Nigeria's Renewable Future

In Nigeria, the reliance on solar mini-grids, off-grid systems, and hybrid energy models highlights the importance of efficient storage. With the national grid facing frequent outages, storage provides ...

Why Battery Storage Is Key to Nigeria's Energy Transition -- EM ...

Over that time, we've deployed and are now developing over 500 MWh of battery storage projects, giving us a front-row seat to how this technology is reshaping power reliability across the ...



Utility-Scale Solar EPC and

BESS projects take root in Nigeria

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7 landmark solar and storage projects redefining how Nigeria powers

Taken together, these projects reflect a decisive shift in Nigeria's energy trajectory. Power is no longer defined solely by generation capacity, but by reliability, intelligence and control.



AfDB Commits \$1.2 Million to Nigeria's Battery Storage Energy

The African Development Bank (AfDB) has committed a \$1.2 million grant to fund a feasibility study on Battery Energy Storage Systems (BESS) in Nigeria, marking a significant step toward the country's ...



Why Nigeria must embrace battery energy storage

systems now

From assembling battery units to managing storage systems, a new industry can emerge. Technical schools and universities can begin training the next generation of workers for the clean

...



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