



Abuja battery management systems

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Arnergy, a Nigerian cleantech company, has partnered with Momas Electricity Meters Manufacturing Company Limited (MEMMCOL) to complete a 540 kwh lithium-based battery energy storage system for the Lower Usuma Dam Water Treatment Plant in Abuja.

The power is made up of a 500kVA Utility-BESS power system incorporating 0.54MWh (megawatt hours) lithium-based battery energy storage system, according to a statement.

Faced with the challenges of power generation assets utilisation and reliance on volatile fossil fuel, the Lower Usuma Dam Water Treatment Plant (LUDWTP), owned by the Abuja FCT Water Board (FCTWB), required an integrated and reliable mega power system that supports round-the-clock operations, optimises power utilisation, and eliminate the need for fossil fuel.

Arnergy, in partnership with MEMMCOL (BDP), delivered the optimal power solution that converts the existing 1MWp grid-tied power solution for the water treatment plant into a Utility-BESS interactive AC-coupled power system architecture sized at 500kVA and designed with 540kWh energy storage capacity.

The deployed power solution achieved 24 hours of power availability, zero fossil fuel interaction, a tremendous decrease in power expenses, and a top-notch power control system to switch seamlessly between Grid-Following and Grid-Forming operations modes.

Recall that in 2017, the Government of Japan, through the Japan International Cooperation Agency, had collaborated with Abuja FCT Water Board and the Federal Ministry of Power in 2017 towards deploying a 1.2MWp grid-connected Solar PV system to power the Lower Usuma Water Dam.

As the Technical Partner to MEMMCOL on this project, Arnergy deployed world-class resources and expertise to implement the project design and installations and advance Nigeria's energy transition drive.

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