Energy storage systems kampala

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Atlas Copco"s industry-leading range of Lithium-ion energy storage systems expands the spectrum of suitable applications and provides operators with increased options for power, taking modular energy storage to a new level. Designed with sustainability in mind, these units are suitable for noise-sensitive locations, dramatically reducing fuel consumption and CO2 emissions during operation.

These battery-based energy units help rental companies and end-users deploy flexible, reliable power. By combining an energy storage system and an integrated ECO ControllerTM --Atlas Copco"s Energy Management System (EMS)-- with low-emission modular assets, such as solar and other renawable sources, you can decarbonize your operations, while achieving significant fuel, energy and lifecycle savings.

In standalone operation, or in a hybrid solution with the grid and/or renewables, there is no fuel consumption. In a hybrid solution with a generator, you can reduce your daily fuel consumption by up to 90%.

Battery energy storage systems are transforming the power supply sector by becoming the heart of energy efficient solutions. They are used in off-grid applications or to boost the limited grid available by efficiently storing and delivering energy to match the load demand.

Weather it is as a standalone solution, in hybrid mode --with the grid, renewable energies or power generators-- or as the central piece of a microgrid, energy storage systems help operators to increase their overall operational productivity, by optimizing energy consumption and cutting costs. Additionally, being battery-based, they are suitable for noise-sensitive environments, meeting regulations.

In a Li-ion battery, the electrolytes carry positively charged lithium ions between the anodes and the cathodes though the separator. When the battery is powering a device, the anode releases lithium ions to the cathode, creating a flow of electrons. In rechargeable batteries, this flow reverses when the battery charges. Then, the

lithium ions are released by the cathode and received by the anode.

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