



# Energy storage applications ethiopia

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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 Controller™ --Atlas Copco's Energy Management System (EMS)-- with low-emission modular assets, such as solar and other renewable 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.

Whether 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 through 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.

With a complete portfolio of energy storage systems, users will now benefit from increased flexibility and versatility in their operations, with both stand-alone and hybrid solutions across their sites.

This battery-based energy solution helps rental companies and end-users deploy flexible, reliable power. Regardless of the operating mode, by combining an energy storage system and an integrated ECO Controller™, you can decarbonize your operations, while achieving significant fuel, energy and lifecycle savings. Their versatility translates into a profitable solution with a low Total Cost of Ownership.

Energy storage systems are suitable for noise-sensitive environments, such as events and construction sites, as well as for telecom, manufacturing, mining, oil and gas and rental applications.

They are ideal for applications with a high energy demand and variable load profiles, as they successfully cover both low loads and peaks. For example, they can properly size cranes and other electric motors, and efficiently manage peaks in energy demand for noise-sensitive events and for electric vehicles (EV) recharging stations. Operators can synchronize several models, which can become the heart of any microgrid, storing and delivering energy coming from several energy sources, including renewables.

Maintaining peak efficiency for your Energy Storage Systems (ESS) requires professional care by skilled technicians who exclusively use genuine parts. Atlas Copco's commitment extends beyond manufacturing; we offer expert services to ensure higher uptime, an extended machine lifespan, and reduced total ownership costs, as only an original equipment manufacturer can.

With the Atlas Copco ESSCare+ Plan, you benefit from our knowledge and genuine parts to keep your electrical processes up and running without the risk of failure, safety hazards, or unexpected downtime. Allow yourself peace of mind so you can focus on your core business, while keeping your budget under control.

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