



# Microgrid energy storage 560 kWh

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Designed for smart and sustainable energy usage, the carport solar system uses Moura's lead-carbon batteries to store surplus photovoltaic (PV) energy generated during the day.

Partnering with ITEM - Institute of Technology Edson Moror? Moura - the project allows Moura to test other energy storage system applications such as PV power smoothing, voltage control and frequency regulation.

The system also features a battery management system (BMS) which controls a new charging algorithm based on smart overcharging control, enhancing the system lifetime up to 10 years at 80% Depth-of-Discharge (DoD).

With the solar panels installed in November 2020, the PV system provides up to 250 kW. This additional renewable element complements the sustainability of the project, which utilizes highly recyclable lead-carbon batteries.

The system acts as a living microgrid laboratory to allow Moura and ITEM to test a range of ESS applications and the performance of lead-carbon batteries in these applications:

Moura has seven industrial plants, six in Brazil and one in Argentina, with around 6,000 employees. Initially focused on the automotive sector, operations were expanded to other segments, producing batteries for numerous applications, such as battery energy storage systems, motorcycles, boats, forklifts, subways, trains and telecom stations.

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Schneider Electric, the global leader in digital transformation of energy management and automation, today announced the launch of its latest Battery Energy Storage System (BESS) designed and engineered to be a part of a flexible and scalable, architecture. BESS is the foundation for a fully integrated microgrid solution that is driven by Schneider Electric's controls, optimization, electrical distribution, and world-renowned digital and field services.

Comprised of battery modules, battery racks, a battery management system, power conversion unit, and



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controller, BESS has been tested and validated to work as an integral component with Schneider Electric's microgrid systems. It is also fully integrated into the software suite, which includes EcoStruxure Microgrid Operation, and EcoStruxure Microgrid Advisor. With defined commercial references and options, selections include configuration and advanced safety controls, BESS minimizes energy costs and delivers the following features:

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