Brasilia solar energy storage



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In a carport system for ITEMM, a battery energy storage system (BESS) coupled with solar panels acts as a living microgrid laboratory.

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 ITEMM - 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.

Moura is at the forefront of developing lead-carbon battery energy storage systems in South America.

Installed in 2019, the 250 kW / 560 kWh BESS performs peak shaving, backup and reactive power management.

Powered by Moura's lead-carbon batteries, the technology provides:

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.

During peak periods when the distribution grid tariffs are higher, the BESS supplies the load and performs energy arbitrage services.

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

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