ENERGY SOLUTIONS

Case 4

GROW YOUR BUSINESS WITHOUT COSTLY GRID UPGRADES

BESS SOLUTIONS FOR GRID EXPANSION AVOIDANCE

As businesses grow, so do their energy demands. Traditionally, when energy needs exceed the capacity of the existing grid connection, expensive grid infrastructure upgrades are required. However, Battery Energy Storage Systems (BESS), like MC Cube ESS, provide an alternative by enabling businesses to manage additional equipments without the need for costly grid expansions. BESS allows businesses to store energy during off-peak times and use it to meet higher demand without exceeding their grid capacity.

THE PROBLEM

Expanding operations, building new facilities, or increasing production often requires more energy than the existing grid connection can provide. Upgrading the grid infrastructure is a costly and time-consuming process, with significant capital investment, regulatory hurdles, and delays in project timelines.

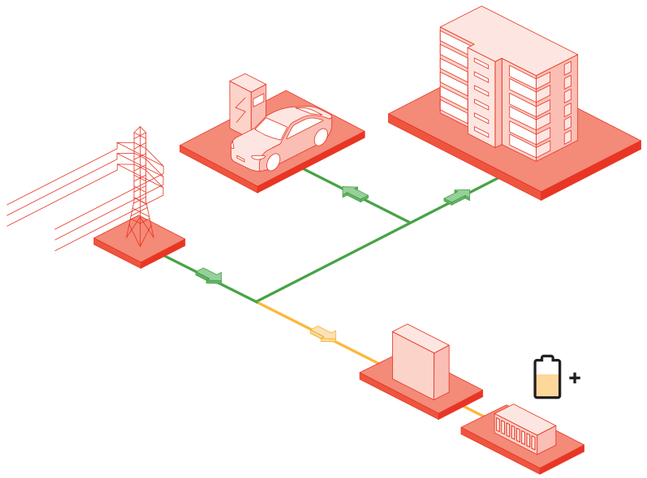
Example: A manufacturing facility plans to expand its production lines, but the local grid cannot supply enough energy to support the increased demand. The company faces significant costs to upgrade its grid connection, delaying the expansion and increasing project costs.

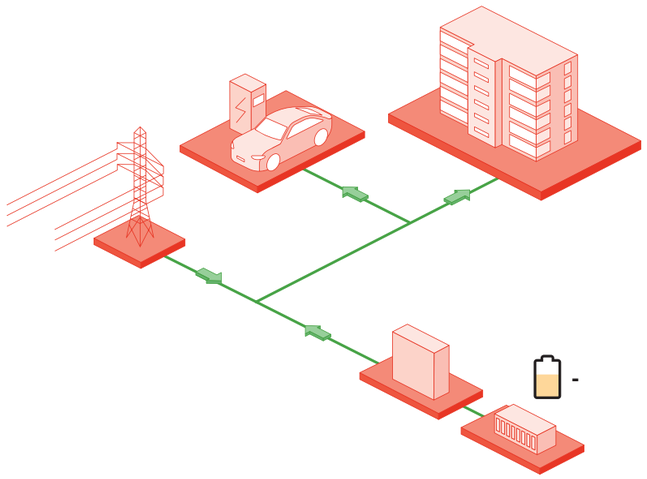
OUR SOLUTION

By implementing a BESS, businesses can avoid the need for costly grid upgrades. The BESS stores energy during periods of low demand, such as at night or during weekends, and releases it during peak hours when the demand exceeds the capacity of the grid. This allows the facility to operate additional equipment or expand production without exceeding the grid limit.

OPERATION OF THE BATTERY ENERGY STORAGE SYSTEM (BESS)

Schematics





Step 1

ENERGY STORAGE DURING OFF-PEAK

- The BESS stores excess energy from the grid during off-peak times when energy demand is low, ensuring there is enough power to meet future peak demands.

Step 2

ENERGY RELEASE DURING PEAK DEMAND

- During periods of high demand, the BESS supplies energy to meet the additional load, allowing the business to operate without exceeding the capacity of its grid connection.

SUMMARY

- By using stored energy, the business can operate new equipment or expand operations without the need for a grid infrastructure upgrade, maintaining efficiency and continuity.

Avoid costly grid upgrades and grow your business efficiently with BESS. Learn how you can manage additional energy loads without investing in expensive infrastructure. Contact us and request more information or a personalized consultation

GET IN CONTACT

KEY BENEFITS

AVOID EXPENSIVE GRID UPGRADES

Manage additional energy loads without costly investments in grid infrastructure.

COST-EFFECTIVE GROWTH

Support business expansion or production increases without significant capital expenditure on grid upgrades.

ENERGY MANAGEMENT

Optimize energy usage by storing energy during off-peak periods and using it during peak demand.

REDUCED DELAYS

Avoid the long regulatory and installation delays that come with grid expansion projects.

REAL WORLD EXAMPLE:
EV CHARGING STATIONS IN FRANCE

The KARRGREEN station in Pontivy is an example of how businesses can leverage alternative energy solutions without relying on costly grid expansions. Located in Pontivy, this station offers EV charging options powered by green electricity generated onsite through solar panels and bioGNV. Additionally, the station avoids overloading the local grid by using energy storage, enabling it to operate without requiring an infrastructure upgrade.

THE RESULTS

Added 3 chargers of up to 100kw each without a grid upgrade

All excess demand is supplied by green energy