

Case 2

OPTIMIZE YOUR ENERGY COSTS



SMART ENERGY MANAGEMENT WITH BESS SOLUTIONS



Industrial and commercial businesses often face high energy costs due to fluctuating electricity prices throughout the day. With BESS such as the MC-I, businesses can make significant savings by

optimizing their energy use (store electricity during off-peak hours when energy is cheaper and use it during peak times), avoiding peak charges or even providing grid services.

THE PROBLEM

Electricity tariffs can vary dramatically during the day, with peak hours being the most expensive due to high demand. For many businesses, this results in significantly uncertainty regarding their higher operating costs, especially if they cannot adjust their energy consumption according to these price changes.

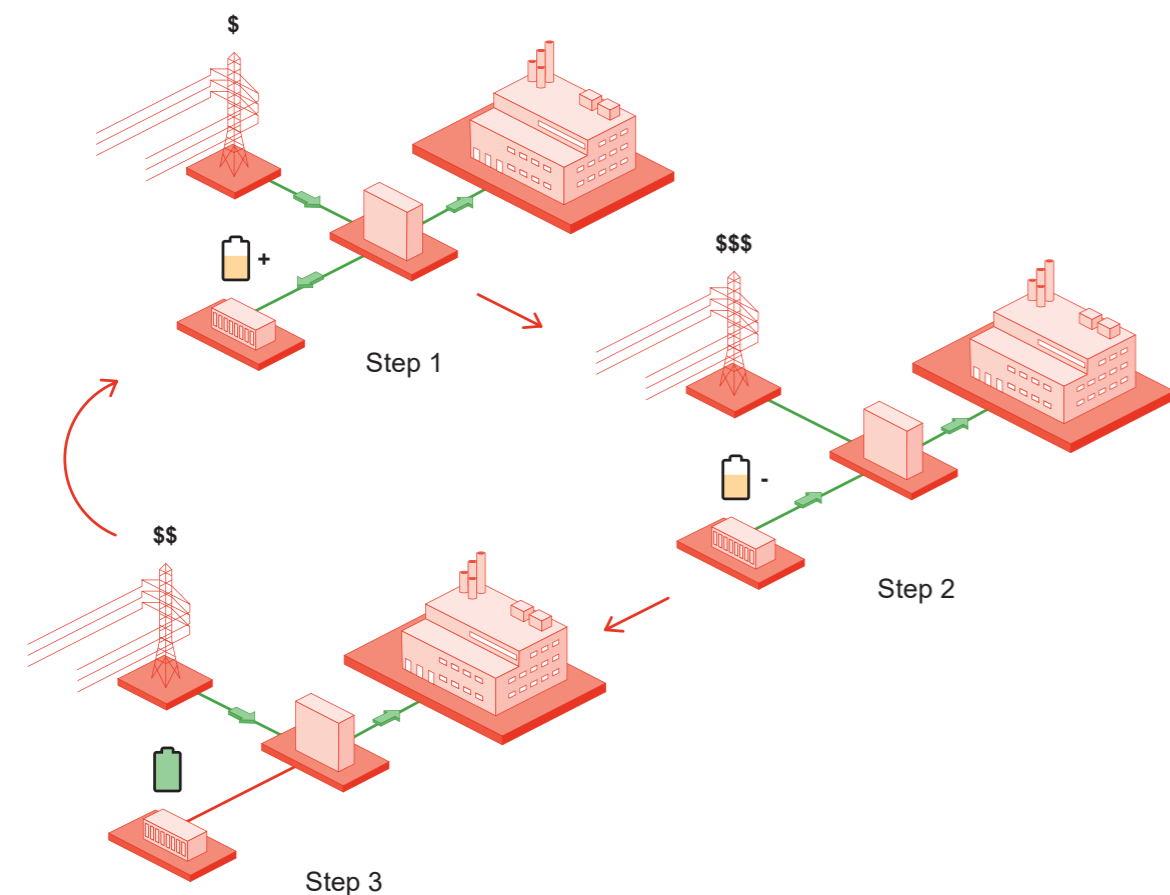
Example: A commercial facility pays high rates for electricity during the afternoon peak hours, when their energy consumption is at its highest. Furthermore, their power price is set by their highest peak, leading to expensive monthly bills. Without a solution to manage this variability, their costs continue to increase.

OUR SOLUTION

BESS allows businesses to store energy during periods of lower tariffs, usually at night or during times of low demand. Later, the stored energy can be used during peak hours when prices are higher, avoiding the need to purchase expensive electricity during those times.

OPERATION OF THE BATTERY ENERGY STORAGE SYSTEM (BESS)

Schematics



Step 1 CHARGING THE BATTERY WHEN ENERGY IS CHEAP

- When energy prices are low, usually at night or early in the morning when fewer people need electricity, the BESS charges. This means it stores energy from the grid when it's cheap.
- You can see the battery icons filling up with energy during these times.

Step 2 USING THE BATTERY WHEN ENERGY IS EXPENSIVE

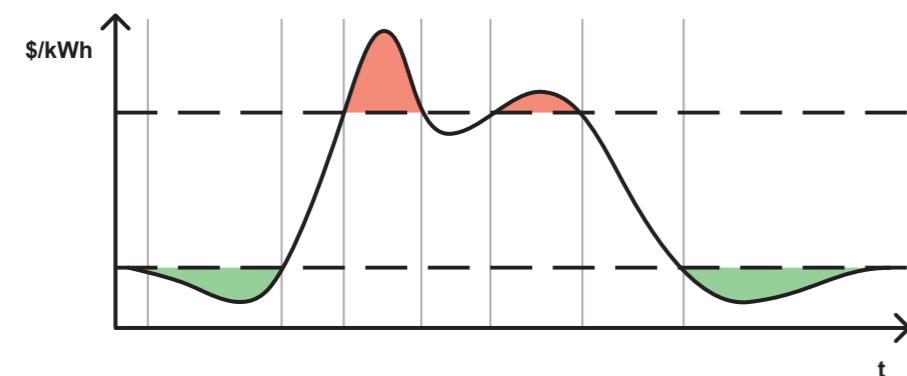
- When energy prices go up, which happens during the day when more people and businesses need electricity, the BESS discharges. This means the business uses the energy stored in the battery instead of buying expensive electricity from the grid.
- The battery icons show the stored energy being used during these high-cost times.

Step 3 SAVING MONEY

- By using energy from the battery during expensive times and storing energy when it's cheap, the business avoids paying high prices for electricity.
- BESS keeps costs low by avoiding the most expensive energy.

SUMMARY

- Charge the battery when electricity is cheap.
- Use the stored energy when electricity is expensive.
- And even cheaper and cleaner when you combine this system with solar or wind power, storing renewable energy for later use.
- This reduces the business's energy costs by avoiding high-priced electricity from the grid.



Take control of your energy costs and maximize savings with smart energy management. Our **BESS** solutions are designed to help you store energy when it's cheapest and use it when you need it most. Click here to contact us and request more information or a personalized consultation

GET IN CONTACT

KEY BENEFITS



ENERGY COST SAVINGS

Store cheap energy and use it during high-price periods, reducing overall energy bills.



GREATER ENERGY CONTROL

Optimize when and how energy is consumed, based on variable tariffs.



REDUCED DEPENDENCE ON THE GRID

Less reliance on grid energy during peak demand periods.



ENVIRONMENTAL IMPACT

Lower reliance on peak-hour energy production, which is often generated from less sustainable sources, contributing to lower carbon emissions.

REAL WORLD EXAMPLE: OFFICE COMPLEX IN CZECH REPUBLIC

An office complex experienced high energy bills due to peak-hour electricity pricing. By installing a BESS solution, they were able to store energy during the night when tariffs were lower and use it during the

peak hours in the afternoon. They decided to install a 350kw/1000kwh system in the basement. Over the course of one year, they saw a 25% reduction in energy consumption but 50% energy cost reduction.



THE RESULTS

- 50% reduction in annual energy costs
- Greater certainty on costs and more attractive pricing for their tenants
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