

## Battery storage commercial buildings

A key component in a well-functioning commercial building is the battery solution. Well-adapted power management and automation products can make a significant positive difference in terms of efficiency, overview and cost. With robust battery storage, companies retain control of their energy supply and prices.

A battery storage system can benefit from its capacity and charge when energy is cheaply available. Additional grid fees and energy costs can be saved when energy is stored in a battery system. A battery energy storage solution (BESS) will also supply electricity when prices are at their highest. Other great benefits are reactive power compensation, peak shaving and shifting.

A good battery solution offers flexibility and enables flattened consumption peaks. Because it is possible to use electricity stored in the batteries during periods of high electricity prices, the financial gain is also significant.

There is no doubt that a battery system offers a completely different flexibility than the traditional grid provides, because the battery solution can be moved and reused. Altogether, it is an essential alternative to expanding the power grid.

A battery solution has the possibility of integration with the energy and control system in the building, making data from the battery system available for interaction with other technical equipment in the building so that the overall result is the best possible.

An energy management systems (EMS) measures energy consumption and monitors areas where it might improve energy efficiency. EMS provides an overall picture of the energy usage in a building, and has a considerable potential to reduce a building's energy consumption.

These systems serve the same function and should work together. While energy management systems focus on micro-level data, building management systems focus on macro-level information. This positions BuMS and BAS as perfectly complementary.

With the proper setup and settings, the battery energy storage solution becomes a key component in your control systems and an essential contributor to giving you a good overview and control. The consequence is, of course, that the building uses electricity as efficiently and smartly as possible.

With the increased electricity consumption compared to what the grid was initially intended for, a battery solution for the building will often be cheaper than increasing the effect of the network company. An increase in power will involve construction contributions and the construction of a new transformer station.



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A commercial building that reduces the power peak with the help of a battery bank will be able to reduce the grid rent very significantly. Energy storage solutions help to increase the consumption of self-produced solar power.

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