400 kWh energy storage battery installation

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A BESS can store energy when electricity prices are low, like at night or when a lot of renewable energy is generated. Then, during peak hours when prices rise, a BESS can be used to support charging instead of drawing power from more costly sources - potentially reducing your energy bills.

As well as storing energy, a BESS provides the opportunity to participate in the energy market. During peak hours, surplus energy can be sold back to the grid instead of remaining unused. This transforms excess energy into extra revenue while supporting a greener grid.

Designed for flexibility and transient settings, this portable power solution will offer a seamless charging experience wherever you go. This mobile powerhouse ranges from 150-250 kW (DC) with 88 kW (AC) and an energy storage capacity of 100-600 kWh.?

Optimize your commercial and industrial sites with a cost-effective and environmentally responsible energy solution. This stationary unit boasts a power range of 400-1000 kW (AC) and a remarkable energy storage of 600-2000 kWh.?

In our example, a fleet owner operates four Volvo FM BEV vehicles, each with a 360 kWh battery. A stationary BESS paired with two DC fast chargers, each at 175 kW, can top up the vehicles during lunch breaks, ensuring a continuous energy supply without interrupting the workflow.

With a BESS, a 250A grid connection is sufficient compared to the 500A connection required without a BESS. This not only reduces the demand on the grid but also costs associated with on-the-go charging. Additionally, it enables revenue generation by selling excess energy back to the grid. Doing so makes the cost of investment and installation pay off in four years.

We benefit from the strength of Volvo Group, where Volvo Penta is at the forefront of developing a scalable, customized subsystem tailored specifically for BESS.

BESS are very flexible and can support and solve many challenges regarding electrification, such as storing intermittent renewable energy or reducing power peaks in constrained grids. For example, BESS might primarily support electric vehicle charging in a weak grid. But it can also provide additional services like grid support, leading to revenue opportunities, or CO2 optimization of your local energy use. So, a BESS can provide both revenue opportunities and cost and emission savings.

The system and installation cost depend on your particular needs, the site and the environment in which it should be placed.Please get in touch with us for a quote.

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The payback time for an investment BESS depends on your use case, priorities, and location. A typical business case for a BESS currently shows a payback of around five years.Please contact us for a more specific analysis of your case or a quote.

BESS can charge all the electric applications on site, as well as visitors that want to charge. This means our solution is brand agnostic, and can charge any vehicles, regardless of brand.

As the electric transformation gathers pace, the number of used batteries grows. And used batteries still have valuable potential. With our circular approach, Volvo Energy reuses and repurpose these powerhouses. And once they"ve given everything, we ensure that they"re responsibly recycled, and ready to give everything they can once again.

Contact us for free full report

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