

Battery storage (BESS)

Investing in the future of energy





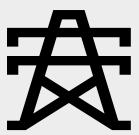












The problem Unstable power grid

The electricity grid is facing serious stability problems. The increasing share of renewable energies and weather-related fluctuations in the feed-in of solar and wind energy are leading to an imbalance between electricity generation and consumption, resulting in grid frequency fluctuations. Studies by the International Energy Agency (IEA) show that these instabilities increase the risk of power outages and jeopardize security of supply.



The solutionBattery energy storage

Large-scale battery energy storage systems (BESS) are high-capacity battery systems that can store surplus electrical energy on a large scale and release it again when required in order to compensate for grid fluctuations and thus ensure a stable power supply (constant at 50 hertz). The continuous technological development and successful implementations worldwide show the immense potential of this technology to successfully shape the energy transition and stabilize the power grid.

Source: https://www.iea.org/reports/electricity-grids-and-secure-energy-transitions/executive-summary (website accessed on September 11, 2024)

Energy storageA huge market

"Already today (...) **power grid outages cost** around **USD 100 billion per year** or 0.1% of global GDP."

International Energy Agency (IEA)

A study by Frontier Economics shows that large-scale battery energy storage systems (BESS) in Germany could generate economic added value of around 12 billion euros by 2050. In addition, the expansion of battery energy storage systems (BESS) could contribute to a saving of around 6.2 million tons of CO₂ by 2030.

Source: https://www.windindustrie-in-deutschland.de/meldungen/studie-bedeutung-von-gross-batteriespeichern-fuer-energiewende (website accessed on September 11, 2024)





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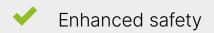
Luana is an energy expert Over 15 years of experience

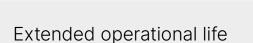
Luana has been at the forefront of the energy sector since 2008, consistently expanding our expertise and capabilities. Last year alone, we achieved a significant reduction in CO2 emissions, saving over 26,000 tons. ■



Benefits of our systems

For continuous, stable & secure energy availability









Al-based monitoring

✓ 24/7 Technical support























Personal & direct Your contact person



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Let's get in touch Looking forward!

Any questions? Let's talk to each other. You are always more than welcome to visit us in Hamburg at our headquarters on the Alster. Of course, we are also happy to come to your office.

We look forward to meeting you and providing you with a free, no-obligation, custom quote.



Status: August 2025

