



mtu EnergyPack QG
Long-term **mtu** ValueCare Agreement



Reliable power
supply



Integrating
renewables



Comprehensive
service



12 MW / 24 MWh
mtu EnergyPack QG



72 Battery units



4 Converters



mtu EnergetIQ Managers,
mtu BESS Controllers

HETTSTEDT
GERMANY



RELIABLE ENERGY SUPPLY IN GERMANY

Establishing a future-oriented energy infrastructure with **mtu** solutions

Executive summary

The energy producer Encavis operates an energy storage plant supplied by renewable sources in Hettstedt, Saxony-Anhalt, Germany. The plant integrates **mtu** solutions from Rolls-Royce for energy storage. Support for Encavis throughout the project spanned project development and system delivery to installation and construction works. The project is also receiving support from Stadtwerke Hettstedt (Municipal Utilities Hettstedt).

What

Installation of large-scale battery storage

Where

Hettstedt, Saxony-Anhalt, Germany

Why

Enable Encavis to stabilize the public grid and trade energy

Main benefits

- Trading energy from renewable sources like wind and solar
- Balancing fluctuations in the public grid
- Extensive guarantees over 10 years thanks to an **mtu** ValueCare Agreement



A Rolls-Royce
solution



ENCAVIS LEVERAGES RENEWABLE ENERGY IN HETTSTEDT

In 2025, the Encavis facility in Saxony-Anhalt commenced operations. The **mtu** battery energy storage system (BESS) provides reliable storage capacity integrating renewable energy into the public grid of the region. By storing energy during periods of strong winds and making it available during wind lulls, Hettstedt has taken an important step towards a sustainable energy transition.

Initial Situation

Germany has strong ambitions for the ongoing sustainable energy transition. In 2024, the country experienced its cleanest electricity year to date, with approximately 50% of its electricity generated from renewable sources like wind and solar. To further this progress, BESS are essential for supporting a flexible energy mix. Energy producers like Hamburg-based Encavis are playing a key role in this effort.

In Hettstedt, Saxony-Anhalt, Encavis developed a new facility for storing renewable energy. Located near wind and solar parks, the operator planned for the plant to store surplus energy during times of high wind and solar activity. When weather conditions shift, the stored energy is released to meet regional demands. The project was supported from the start by Stadtwerke Hettstedt.

Mario Arnold, Managing Director of Stadtwerke Hettstedt GmbH, said: "The battery storage system [...] completes our idea of a reliable and innovative energy supply. We are delighted that Encavis AG and Rolls-Royce want to make their contribution to a future-oriented energy infrastructure with us as their partner. In particular, this gives us the opportunity to raise the security of supply of an entire region to a new level."

Solution

Encavis has found a reliable partner in Rolls-Royce to provide an end-to-end solution for the project. From the initial planning stages to the groundbreaking, Rolls-Royce experts supported Encavis, handling construction work and providing all grid connection components. The large-scale **mtu** EnergyPack QG — the heart of the entire operation — features 72 battery cabinets in the BESS. Thanks to this system, the plant today boasts a storage capacity of 24 megawatt-hours and an output of 12 megawatts.

To optimize energy management, Encavis uses **mtu** EnergetIQ to control the whole facility, managing energy flows and offering real-time insights into storage levels, input, and output. Long-term reliability is ensured through a 10-year **mtu** ValueCare Agreement, under which Rolls-Royce experts will provide maintenance and ensure smooth operation.

ALWAYS SAFE AND SOUND THANKS TO ENERGY TRADING

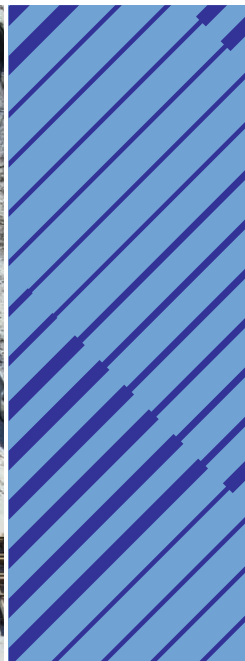
With the launch of the facility in 2025, the entire region is now benefiting from a secure power supply – sustainable and reliable.

Result

The Hettstedt plant today stabilizes regional power supply by balancing fluctuations in the public grid. The locally generated wind and solar energy enhances energy security, while the plant's participation in the day-ahead and intra-day energy markets enables the most cost-effective energy mix. By purchasing and storing energy when market prices are low, the plant ensures affordable electricity for residents, even during periods of reduced renewable output.

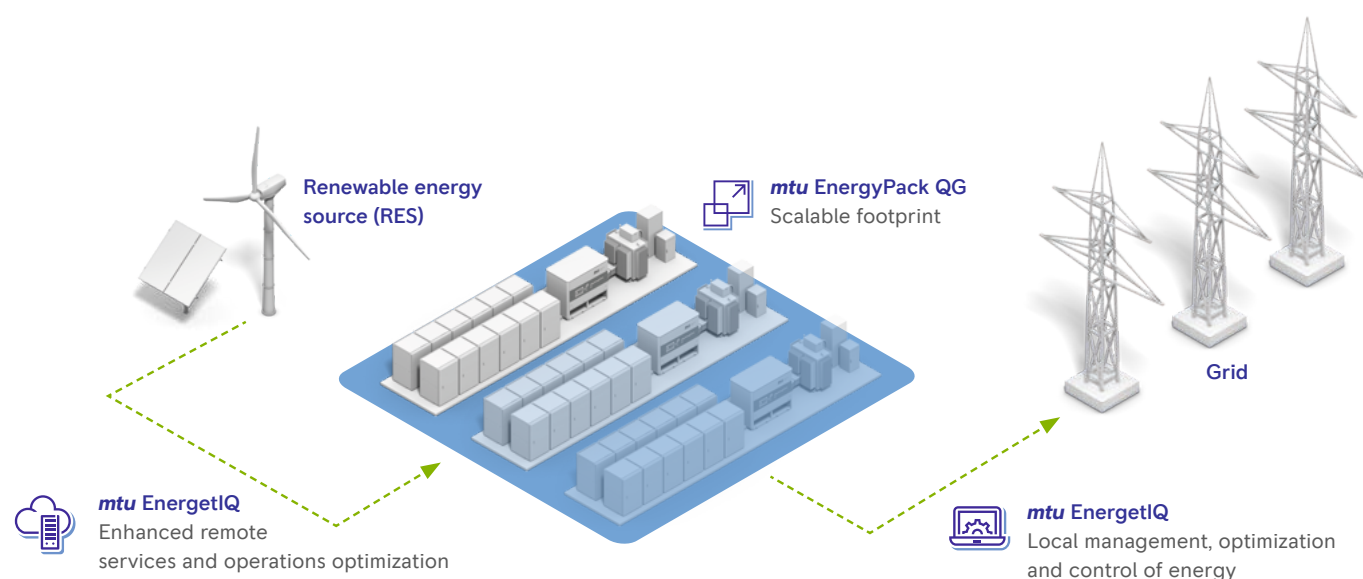
Encavis is pleased with the partnership. Mario Schirru, CIO/COO of Encavis AG, comments: "We are delighted to have found a reliable partner in Rolls-Royce, who has been at our side since the project development phase and will continue to support us over the next ten years and ensure smooth operation."

Jan Gerrit Prunnbauer, Project Lead Sustainable Customer Solutions at Rolls-Royce, shares similar enthusiasm: "Working with Encavis and Stadtwerke Hettstedt on this project has been a highly collaborative experience. We've seen a strong commitment from all stakeholders, including local authorities, to actively engage and support the successful implementation of this energy storage solution. Their openness and dedication have played a key role in bringing this project to life."



UNLIMITED SCALING MEETS PROJECT-SPECIFIC NEEDS

The **mtu** EnergyPack QG is a battery energy storage system designed for grid-scale applications.



A complete plant design may consist of multiple building blocks. Each block is designed for a nominal charge and discharge rating of up to 4.4 MVA. The power conversion system can be combined with either rack or container-based battery systems sized according to the desired C-Rate.

The thoroughly tested and certified batteries feature integrated control, fire suppression, cooling, and heating systems. As standalone operational units and due to their modular design, they can easily be replaced in case of failure, ensuring reliable operation with the highest availability of your batteries.

Our team of experts will help you design a system that meets your project goals and maximizes your site's potential.

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