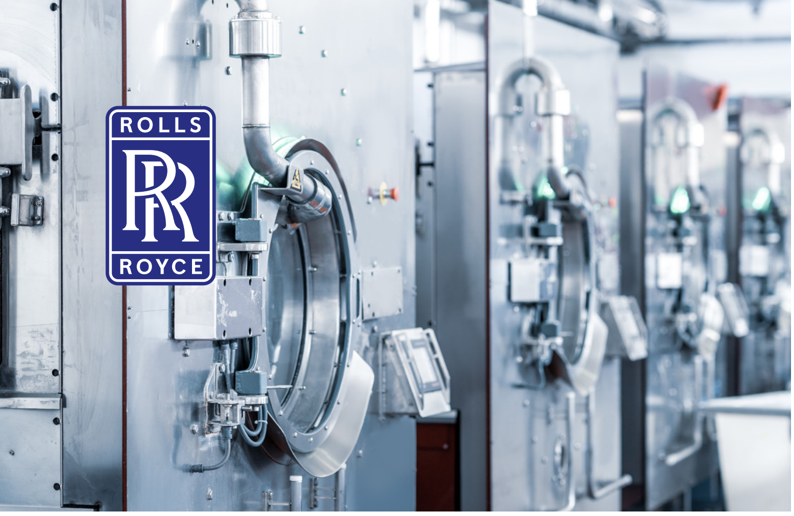
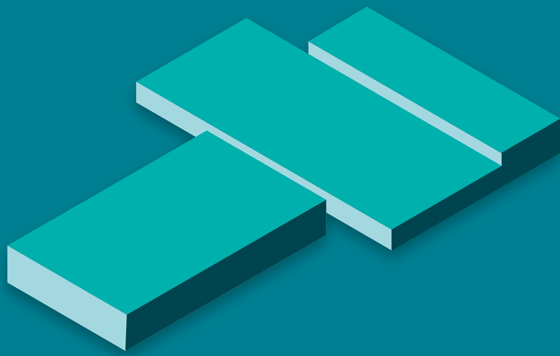


Success Story | Germany
Laundry Abel

Configuration of the microgrid with ***mtu*** solutions

mtu Gas Generator | through ***mtu*** EnergetIQ | ***mtu*** EnergyPack QS

Area space: 11,000 m²



Over 800 clients

60 tons laundry cleaned per day

CLEAN ENERGY FOR CLEAN LAUNDRY

How *mtu* solutions make the operations of a laundry more sustainable and reliable

Executive summary

Wäscherei Abel (German for laundry) has been operating an ***mtu*** gas genset for several years to make its operations less dependent on the public grid and produce energy more sustainably. With the installation of a battery pack, it has now become a fully-fledged microgrid, controlled by our ***mtu*** EnergetIQ Plant Manager.

What	Laundry Services
Where	Anger, in Southern Germany
Why	To better integrate sustainable energy into operations and have it smartly controlled by ***mtu*** EnergetIQ
Main benefits	- More independence from the public grid - Better integration of renewable energies - Reduced operating costs

A Rolls-Royce solution

AN ***mtu*** POWERPACK TURNS THE SETUP INTO A MICROGRID

The installation of a gas genset was the first step towards making the laundry more sustainable and reliable.
A microgrid will take the configuration to a new level from 2024.

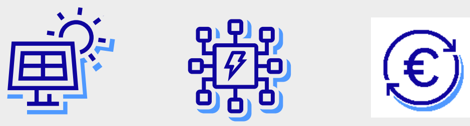
Initial Situation

The Abel laundry is an established name in its home town of Anger in Bavaria, Germany. Over 800 customers from the hotel and catering industry rely on the family business, which cleans 60 tons of dirty laundry every day on an area of 11,000 square meters. To ensure that operations are not only reliable but also sustainable, the decision was made in 2014 to install an ***mtu*** gas genset with an output of 390 kW.

For 2024, the laundry is planning the next step on the road to greater sustainability, which also promises cost savings through the integration of renewable energies. Together with distributor Rolls-Royce Solutions GmbH, ***mtu*** solutions were chosen for the further development of the laundry in addition to a photovoltaic system. The aim is to install a complete microgrid.

Performance data of the Abel laundry:

Customers:	Over 800 clients
Industry:	Hotel and Catering and others
Laundry cleaned per day:	60 tons
Area space:	11.000 m^2
Cost saving per year:	up to 700.000 €

2024: 

Situation

An ***mtu*** EnergyPack QS is being installed on the family-owned company's premises so that the energy generated by the ***mtu*** gas genset and the photovoltaic system can also be used when demand is low. This flexible battery container, with a capacity of 534 kWh, is the ideal addition to the company's energy infrastructure. The ***mtu*** EnergyPack QS offers high power density, makes the power supply more reliable and, as the heart of the microgrid, allows both grid-supporting and grid-forming operation.

The ***mtu*** EnergetIQ Plant Manager controls the entire setup to ensure that this heart works optimally. In times of high demand, the ***mtu*** gas genset is ramped up and the energy from the photovoltaic system is used. If demand and availability change, ***mtu*** EnergetIQ switches automatically and can flexibly in the ***mtu*** EnergyPack QS.

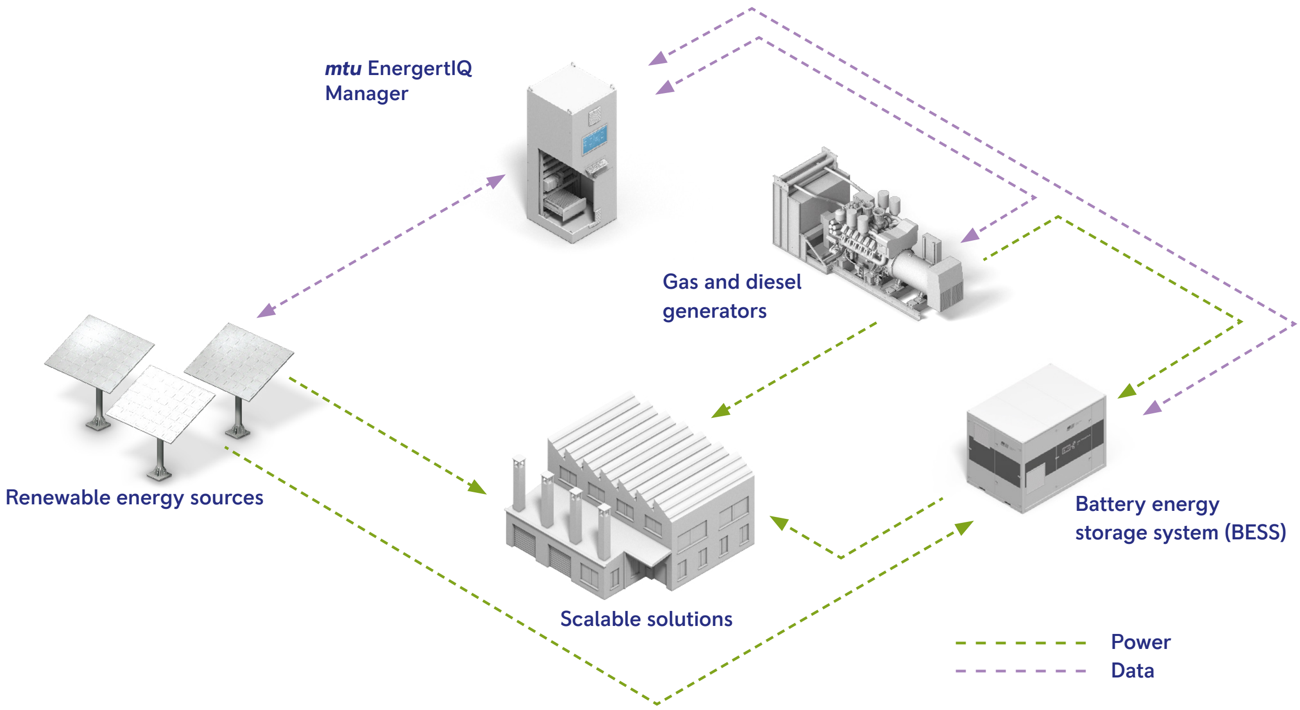
READY FOR SUSTAINABLE OPERATION FROM 2024

Smart control, optimally dimensioned, reliable energy supply - with the microgrid consisting of ***mtu*** solutions, the Abel laundry is ready for the future.

Result

In July 2024, the microgrid will be put into operation on the company's premises. By installing the battery container, the energy center of the plant will house a fully functional microgrid in the future.
This will not only enable the Abel laundry to save money when drawing electricity and operate more independently of the public grid, but will also significantly reduce emissions.

Christian Abel, Managing Director of the laundry, is optimistic about the future and is confident about the potential of the configuration: "We protect the environment sustainably by constantly optimizing the use of resources and using energy-efficient plant and machinery. Our overriding principle is to avoid environmental pollution. The energy solutions from Rolls-Royce Power Systems fit in perfectly with our requirements and our operating concept."



Start saving costs with microgrids

Are you curious if microgrids can help your facilities save on energy costs?

Contact us today at
info@ps.rolls-royce.com
Or call +49 7541 90-77777

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Your benefits:
— Energy cost optimization
— CO_2 avoidance
— Increased grid independence