



Delivering efficient, climate-friendly power and heat



Cost optimization



Power security



Sustainability

CHP plants

3



EnergyPacks

2



Power commitment

2 MW



Generator sets

2



BIGGLESWADE,
UNITED KINGDOM



A POWERFUL COMBINATION

Rolls-Royce selected to provide integrated **mtu** microgrid solution for a new UK logistics park

- What:** **mtu** microgrid solution, combining CHP plants, generator sets, battery energy storage systems and controls
- Where:** Biggleswade, United Kingdom
- Why:** Capability to deliver efficient, climate-friendly power and heat, augmenting local grid supply
- Main benefits:** Reliability, sustainability and cost optimization



A Rolls-Royce
solution

MICROGRID BUILT FOR RESILIENCY AND SUSTAINABILITY.

Rolls-Royce has been selected by BasePower Ltd to supply three **mtu** Series 4000 L64FNER CHP plants, two **mtu** EnergyPack battery containers and two **mtu** Series 2000 standby generators, along with complete microgrid controls, for a new logistics park in the United Kingdom.

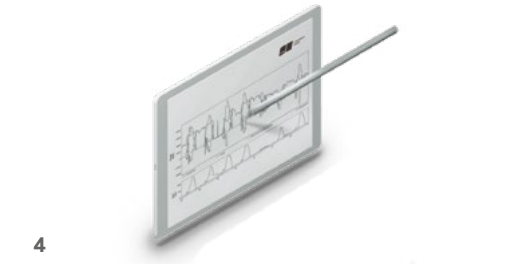
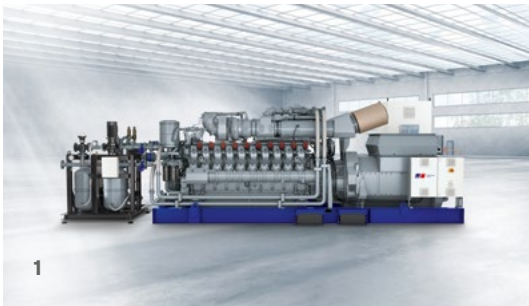
A blueprint for the future

The new 2MW energy centre at Symmetry Park Biggleswade is the result of a joint enterprise project between Tritax Symmetry and energy services developer BasePower and will provide clients at the Logistics Park in Biggleswade with reliable, greener, cost-effective power solutions. It will augment the grid with renewable and resilient power generation from several sources, including rooftop solar photovoltaics (PV), batteries and a Combined Heat and Power (CHP) plant. The efficient solution is the result of extensive collaboration with BasePower, from conceptual design through to implementation.

Tom Leeming, Development Director at Tritax Symmetry commented: “One of the priorities our clients have when deciding on a new location for their business is power. As a responsible developer, we realised the need to supplement and enhance the national grid supply to ensure continual, robust, and greener alternative power supply for our occupiers. The installation of energy centres on our parks will provide tenants at the site with greater resilience, more competitive energy, and a pathway to fully net zero carbon emissions. We estimate a savings of between five and ten percent on grid energy bills and the energy centres are also upgradeable if extra power is needed, such as by adding additional PV.”

Andreas Görtz, President of Sustainable Power Solutions, Rolls-Royce said: “We are thrilled to be the power solution provider of choice for this sustainable project. The **mtu** microgrid for the Biggleswade energy centre is a great example of our transformation into an integrated sustainable solutions provider and will undoubtedly be a blueprint for further microgrid projects all over the world. This project serves as another example of how we are contributing to the net zero energy transition. It is in line with our sustainability program, which is realigning the product portfolio of Power Systems towards more sustainable fuels and new technologies that can further reduce greenhouse gas emissions.”

- 1 **mtu** Series 4000 L64FNER CHP system
- 2 **mtu** EnergyPack QL
- 3 **mtu** Series 2000 standby generator set
- 4 **mtu** microgrid controller



INTEGRATED SOLUTION ENSURES STABLE AND RENEWABLE POWER.

The **mtu** microgrid solution at Symmetry Park Biggleswade works in parallel to the grid. It is designed to supply efficient, climate-friendly electricity and heat from a mix of renewable and traditional power generation sources, and battery storage systems.

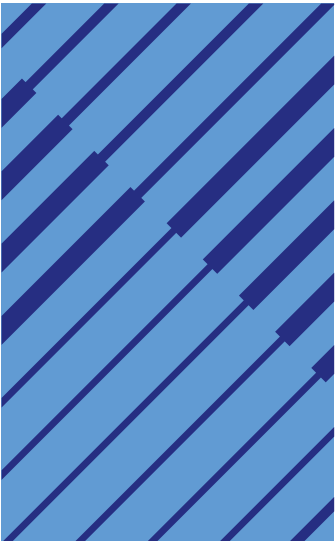
Combining forces

The two **mtu** EnergyPack QL battery storage systems with 2.3 MWh total capacity will store electrical energy to provide a fast, flexible, and carbon-free response to varying load demands and will act as the sole source of power in times of low demand. Three **mtu** Series 4000 L64FNER CHP systems will provide the main power source with 3 MW total power, with the added benefit of being future-ready, as they are capable of being converted to hydrogen power. Two backup 1 MW **mtu** 16V2000 DS1250 generator sets will ensure power security in the event of an emergency.

All the **mtu** systems and onsite solar photovoltaics are coordinated by a smart **mtu** microgrid control system consisting of two microgrid controllers operating in duty and standby mode for added resilience. The system handles both the dynamic load and power needs for optimal commercial and technical efficiency. The energy centre operates in parallel with, and supplemental to, the grid supply and can also operate off-grid, if required. With the **mtu** smart controls, the microgrid provides energy using the best source or combination of sources at any given time.

In addition, the site will be supported with ongoing maintenance and system services by a UK-based team to ensure operational excellence.

Symmetry Park, Biggleswade
Fully integrated **mtu** microgrid solution is designed to optimize energy cost savings, enhance sustainability and increase power grid independence.



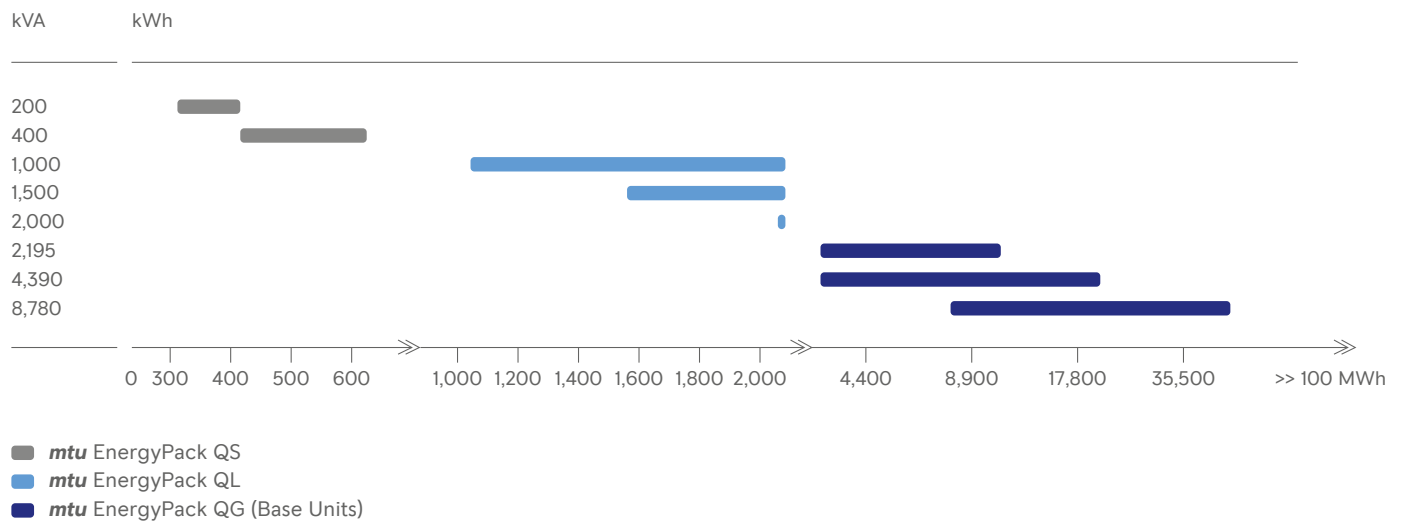
mtu ENERGYPACK

The **mtu** EnergyPack is a stable, all-in-one solution for improving the reliability and profitability of microgrids and energy systems. It stores electricity from any distributed power source – such as generator sets, wind turbines or solar panels – and delivers it when needed. Available in three sizes: From 200 kVA to 8800 from 313 kWh up to GWh scale solutions, the **mtu** EnergyPack is the perfect storage solution for a wide range of power and capacity requirements.



mtu EnergyPack – Full power and capacity range*

2C configurations with limited availability.



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