Denmark hospital energy storage

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Dubbed "The Hospital of the Future", the new Odense University Hospital (OUH) is the largest all-new hospital to be built in Denmark and one of the most technologically advanced in Europe.

The project for this new cutting-edge university hospital incorporates Piller Dynamic Rotary Uninterruptible Power Supply (DRUPS) technology, known for its reliability, sustainability, and other benefits over battery-backed systems.

With core infrastructure completed in less than a year, the system is currently undergoing commissioning. Stress testing is scheduled for Q1 2025 and a full handover expected mid year. Installation was carried out by local EPC partner Coromatic.

The OUH installation sets yet another benchmark for resilient hospital infrastructure. The design reduces environmental impact and minimises CO2 emissions, key considerations when designing "The Hospital of the Future".

Piller power conditioning and backup technology can be found in major mission-critical power applications globally. For many of the world"s banks and financial institutions, governmental agencies, data centre operators, telecoms networks and airports, as well as hospitals, semiconductor and pharmaceutical manufacturers, Piller equipment is the go-to technology.

Piller was founded by Anton Piller in Hamburg in 1909. Today the company is headquartered in Osterode, near Hanover in Germany, with subsidiaries across Europe, in the USA, India, Asia and Australia. The company employs around 1,000 people worldwide.

Piller Group GmbH is a wholly owned subsidiary of the UK engineering and industrial group, Langley Holdings plc and is part of the Power Solutions Division together with Bergen Engines AS, GKN Hydrogen and Marelli Motori Srl.

Sygehus S?nderjylland - the local hospital in S?nderborg located in Southern Denmark - is leading the way in ensuring a greener and more sustainable future in healthcare as they are replacing oil-based heating and cooling systems with energy-efficient technology.

"We are thrilled to officially inaugurate our two new heat pumps as part of the hospital"s new customer demonstration room. This is a significant move away from fossil fuels and outdated gas boilers. At Sygehus S?nderjylland and in our region, we are committed to reducing our carbon footprint, and our aim is that this project will inspire the healthcare sector to follow our example to accelerate the green transition".

The new solution not only reduces the hospital"s environmental impact by lowering its carbon footprint, but it also creates a more comfortable indoor climate, while setting an example of how the energy systems of the future are electrified, hydronic, and integrated.

The two new heat pumps will replace gas and oil-based heating and cooling systems through energy-efficient technology and are expected to reduce the hospital"s annual energy consumption by around 12,500 MWh. This equals the total heat consumption of around 740 average Danish households.

"This partnership is a lighthouse example of how innovation and collaboration can drive sustainable change. It also showcases our commitment in Danfoss to co-develop sustainable solutions to decarbonize heating and cooling. We are proud to partner with Sygehus S?nderjylland and the district heating utility S?nderborg Varme as we set a new standard for decarbonizing the healthcare sector".