Commercial microgrids london

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Base Power is developing a new 2 MW energy center at Symmetry Park, a logistics park located in Biggleswade, UK, about an hour north of London. At its heart will be an integrated microgrid from Rolls-Royce.

The microgrid will supplement power from the national grid and provide the park"s tenants with reliable, sustainable, and cheaper electricity, according to Tom Lemming, development director at Tritax Symmetry, the company that owns the Biggleswade facility.

"The installation of energy centers on our parks will provide tenants at the site with greater resilience, more competitive energy, and a pathway to fully net zero carbon," Lemming said.

The energy center microgrid will be provided by Rolls-Royce"s mtu brand. In addition to on-site rooftop solar, the center will have three mtu combined heat & power (CHP) plants.

It will also include two EnergyPack battery containers with 2.3 MWh of capacity. The batteries will support varying load demands and can also serve as Symmetry Park"s primary source of power. Two standby generators will provide backup power in case of emergency.

"We are thrilled to be the power solution provider of choice for this sustainable project," said Andreas G?rtz, president of Sustainable Power Solutions at Rolls-Royce said.

Rolls-Royce will also provide the two smart microgrid control systems to manage the onsite solar and the other connected power sources. This includes managing the center"s connection to the national grid.

Lemming said, "one of the priorities our clients have when deciding on a new location for their business is power." It"s for this reason that Symmetry Park isn"t the only logistics center adding a microgrid. The largest intermodal freight and logistics facility in Australia, for example, recently announced that it would be installing a solar microgrid to provide its tenant with reliable, greener, and cheaper electricity.

I work as a writer and special projects editor for Microgrid Knowledge. I have over 30 years of writing experience, working with a variety of companies in the renewable energy, electric vehicle and utility sector, as well as those in the entertainment, education, and financial industries. I have a BFA in Media Arts from the University of Arizona and a MBA from the University of Denver.

With energy bills on the rise, businesses across the UK are looking more closely at their energy management strategies to identify opportunities for cost savings, resilience and decarbonisation. Microgrids are becoming an increasingly attractive solution for businesses and local communities, allowing them to rely less on the

main grid and to integrate more renewable energy into their operations.

A microgrid is a small-scale electrical grid with its own power system that can operate separate from or alongside the electric grid. Microgrids can deliver power to commercial buildings, residential communities, hospitals and factories. A microgrid can connect and disconnect from the main grid to enable it to operate in grid-connected or island-mode.

For microgrid developments, energy storage plays a key role in the successful integration of renewable sources to prevent outages. Energy storage systems support the reliable, resilient, and cost-effective operation of microgrids, helping to balance generation and load, integrate intermittent renewables, and provide an opportunity for earning additional revenue through grid services.

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