



Microgrid control united kingdom

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Emerson's microgrid controls solution, built upon the Ovation(TM) control system with an integrated microgrid controller, manages a microgrid's distributed energy assets to cost-effectively produce low-carbon electricity while maintaining grid stability and operational resiliency.

It effectively automates control of all microgrid components and macrogrid interconnections to satisfy power demand and maintain stable operating conditions with minimal operational staffing.

Emerson's Sustainable Grid Solutions transform unpredictable renewable energy into predictable, reliable power. With real-time demand forecasting, operational visibility and analytics, decision-making becomes easier and more precise. Renewable energy sources are now seamlessly incorporated into your traditional energy mix, maximizing efficiency from generation to delivery.

In this Electric Energy Online (EET& D) article, Emerson's Rick Kephart outlines how implementing a single automation strategy for microgrid management provides numerous operational, maintenance and financial benefits.

Our range of innovative microgrid controllers offer control, monitoring and management solutions for distributed energy resources, featuring versatile solutions for the integration and management of any source of power within a microgrid, be it renewable energy sources (photovoltaics, wind turbines), battery energy storage systems, fuel cells or gen-sets.

ABB has been selected by the University of Chester to deploy a state-of-the-art microgrid control system for the new Energy Centre at its Thornton Science Park in Cheshire, a major research and innovation hub in England. The microgrid, which will be the first of its kind at a UK university campus, will play a key role in the Energy Centre's mission to provide a demonstration environment where new energy technologies can be developed and tested, bringing industry and academia together to drive innovation.

"The Thornton Science Park microgrid is a pioneering initiative and we are pleased to contribute with our domain expertise, experience and know-how" said Massimo Danieli, Managing Director of ABB's Grid Automation business unit, a part of the company's Power Grids division. "This project is a good example of how ABB partners with academia to demonstrate and promote the adoption of leading edge technologies that make us a partner of choice for enabling a stronger, smarter and greener grid."



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Professor Joe Howe, Executive Director and Professor of the Thornton Energy Research Institute at the University of Chester said: "The Energy Centre has been created to demonstrate and promote the development of the latest technologies and forms part of a wider energy focus for Thornton Science Park. The ABB microgrid control and storage solution is a particularly exciting development that provides a platform for learning and is a great example of industry and academia working together to address real-world issues."

ABB's microgrid solution will demonstrate how DER (distributed energy resource) technologies can work together to minimize fuel costs and emissions within a grid. It will also maximize the penetration of renewable energy in a grid. The microgrid controller will manage the Energy Centre's connection to the campus network - and then the connection to the local grid. This will show the microgrid's capability to connect or disconnect seamlessly from the main grid and operate in an islanded mode, ensuring continuity of supply in case of an outage.

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