



York Society of Engineers

7:30 pm. Thursday 04 April 2024

Live Lecture

Room P/L/001, Physics/Electronics Building, Campus West, University of York

Ferrybridge Battery Energy Storage System (BESS)

by

**George Hawkings and Ricky Harke
of
SSE Renewables**



Ferrybridge is a 150MW / 300MWh battery energy storage system (BESS) project, based on the site of the former SSE-owned coal-fired power station. The plant was decommissioned by SSE in 2016.

The BESS is capable of running up to two hours at a time. It provides flexibility to the Grid during times of peak demand. Projects like Ferrybridge BESS are vital to the [UK Government's battery strategy](#).

The project marks the next chapter for Ferrybridge which will once again be a vital location for the UK energy system, providing the flexible electricity storage the UK needs to fully utilise its growing renewable energy sources, such as wind and solar power.

The 150MW two-hour solution will comprise of a Lithium-ion battery system provided by our BESS Integrating partner Sungrow and will have on-site supporting infrastructure including, AC/DC inverters (Power Conversion System (PCS)), 132/33/33kV 180MVA transformer, associated switchgear and a 132kV cable connection to the National Grid.

Led by SSE Renewables' construction delivery partner, OCU Energy, the project has removed the existing foundations, treated, crushed, tested and reused any existing materials on site in an effort to reduce the projects need to import new aggregate for foundation and civil works. This has resulted in a considerable reduction in CO2 for the project against typical construction methods.

Throughout the construction of the site, the project team has also engaged with local businesses for various aspects of the works, including facilities management, electrical installation and waste management, contributing to the local economy.

There will be an opportunity for questions and answers at the end of the talk.

Please note, this lecture will be a live talk in Room P/L/001, Physics/Electronics Building, Campus West, University of York.

Wearing of masks is encouraged (but not mandatory); taking a lateral flow test prior to the meeting (with negative result) is also recommended. There is plenty of space in the lecture theatre for “social distancing”.

Please see the Covid-19 guidance below from the University of York:

The safety of our audience members and staff are our priority, and the University of York continues to have strict cleaning regimes and enhanced ventilation in place.

Please note that the University of York is promoting a message of protect, respect and be kind in relation to Covid-19 and we therefore politely ask that all

attendees consider wearing a face covering whilst moving around indoors, washing hands regularly and taking a lateral flow test in advance of the event. We also ask that you do not attend if you experience any symptoms that could relate to a Covid-19 infection OR if you are self-isolating. Events staff will wear face coverings (unless exempt) and clear signage will be available to access hand sanitizer and hand washing facilities.

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