York Society of Engineers

7:30 pm. Thursday 06 November 2025

Live Lecture

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

Humber Zero

by

Jessica Pidgeon

Process Engineer, VPI

VPI is one of the leading power companies in the UK, Ireland, and Germany. Its portfolio includes reliable thermal power and battery storage across seven sites in the UK and Ireland. They are already one of the largest power generators in the UK and the largest battery storage operator in Ireland. They have two projects under construction and more in development.

VPI are also preparing for the future with 'first of a kind' projects like Humber Zero – the world's largest retrofit post-combustion carbon capture projects. Designed to capture 3.3 MTPA of CO2, this project will meet nearly 20% of the UK government's 2030 targets once constructed.

The Humber Zero post-combustion carbon capture project will breathe new life into the Immingham CHP, decarbonising not just the grid but also neighbouring refineries and potentially other industrial customers.

Over the course of the evening, Jessica will explain how the project started, where it is at now, dive into some of the challenges that have been overcome, and share the next steps that VPI are taking to enable first capture by 2030.

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 is 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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