

ZEP 48th Advisory Council Meeting

Guest Presentations

Leeds City Gate H21

Speaker: Dan Sadler (Northern Gas Networks)

The H21 Leeds City Gate report represents a collaboration between Northern Gas Networks (NGN), Wales & West Utilities, Kiwa Gastex and Amec Foster Wheeler, setting out how the gas grid in Leeds can be converted to hydrogen. The report recommends that a UK-wide conversion from natural gas to hydrogen could reduce emissions from the heat sector by 73% - making a dramatic contribution towards meeting the UK's decarbonisation goals.

Converting natural gas into hydrogen takes place via a process called Steam Methane Reforming – this turns the gas into hydrogen and carbon dioxide. To achieve the significant emissions reductions from this process, the H21 report proposes to use CCS to capture and store the carbon dioxide from the conversion – with hydrogen remaining as a zero-carbon fuel that can be used for heating, transport and electricity.

A copy of the full report can be accessed via the following link:

<http://www.northerngasnetworks.co.uk/wp-content/uploads/2016/07/H21-Report-Interactive-PDF-July-2016.pdf>

Lessons Learned: Lessons and Evidence Derived from UK CCS Programmes

Speaker: Theo Mitchell (CCSA)

Following the decision of the UK Government (HMG) to cancel the UK CCS Commercialisation Programme in November 2015, it became clear that there was a need to identify and collate the key lessons learned by those who have sought to develop CCS. It is hoped that making these lessons available will help to inform the future development and deployment of CCS in the UK.

This exercise was led by Patrick Dixon (Director, CCSA) and the Carbon Capture and Storage Association (CCSA). Interviews were conducted with CCS project developers and a selection of other CCS stakeholders between January and April 2016. Views were sought on the recent UK CCS Commercialisation Programme (2012 – 2015); and more generally around experiences with developing CCS projects in the UK and Europe over the last decade.

The final report aims to avoid advocacy, and does not provide any specific recommendations; however readers should be able to draw a number of important conclusions from the evidence.

A copy of the full report can be accessed via the following link:

http://www.ccsassociation.org/index.php/download_file/view/1023/76/