**ERA Conference breakout session**

**Hydrogen Storage in the Midlands**

In this workshop will began with a brief presentation from Gordon Arnott, Research Development Manager for the University of Nottingham Energy Institute. He will present some of the current and future proposed research related to hydrogen storage. After the presentation the attendees, in small groups, produced a Hydrogen Storage map for the Midlands showing organisations and sectors which are likely to need to store hydrogen and the methods of storage that are most suitable.

The maps stimulated a discussion about long- and short-term energy storage. Geological stores, salt caverns in Chesire and East Yorkshire, with the potential for sandstones in Nottinghamshire & Leicestershire as a regional long-term energy store. More work is needed to explore the feasibility of using porous rock types as hydrogen stores. Compressed on site hydrogen storage was preferred as an option for construction, cement works, quarrying and energy intensive industries, with liquid hydrogen stored at the regions airports (Birmingham, Coventry and East Midlands). Overall, we have found these maps and the discussions generated from them useful in considering the potential users for hydrogen storage and solutions that could be deployed.

**Dr Katherine Mycock, Business Engagement & Impact Officer**

HyDEX l Energy Research Accelerator