

Hydrogen – Energy Transition Workshop

8th October 2019, London

1 BACKGROUND INFORMATION

The Energy Institute's (EI) technical work programme produces health, safety, environment, quantity and quality (HSEQ) research and good practice guidance for the energy industry, from the oil and gas sector through to the conventional and renewable power generation sectors.

To support the energy transition towards a low carbon economy, the EI is convening in October 2019 three workshops that will bring together the energy industry and its stakeholders to identify and discuss scientific and technical challenges that need to be overcome. For the Hydrogen workshop, the premise is that deployment of Hydrogen will occur; hence the main objective of the workshop is to identify non-competitive scientific and technical challenges that need to be overcome to facilitate hydrogen deployment. Where the identified scientific and technical challenges are non-competitive, they will be considered by EI's Scientific and Technical Advisory Committee (STAC) for taking forward through its collaborative work programme.

Delegates may represent businesses that produce bulk hydrogen, through to those that provide storage or use facilities, or its interfaces with other sectors. Stakeholders may include businesses that design or regulate facilities, as well as those that provide consultancy or research services.

Delegates need not necessarily have in-depth scientific or engineering knowledge, but should understand the scientific and technical issues faced in their businesses and be able to participate actively in workshop discussions.

This workshop will provide a valuable opportunity for the energy industry sectors to come together and network around the common topic of hydrogen integration.

2 LOGISTICS

Venue:	Energy Institute, 61 New Cavendish Street, London, W1G 7AR
Room:	Lecture Theatre
Timings:	09:45-16:00
Format:	Scene-setting presentations, together with facilitated group discussions on common issues.
Catering:	Could delegates advise if they have any particular dietary requirements.
Terms of reference:	The workshop will be held under 'Chatham House' rules. EI will prepare a debriefing report that sets out at high-level what was discussed and the key issues arising; but the intent is not to attribute comments to individuals.

3 ATTENDEES

As of 18 September 2019, the following companies have registered for this workshop:

Aramco
BCGA
BEIS
BOC Gases
BP
Centrica
Chesterfield Special Cylinders
CNOOC
DCC
DNV GL
Frazer Nash Consulting
HSE
HSL
Hydrogenics
IChemE
IET
IMechE
Innospec
Kingston University
Kiwa Gastec
Lloyds Register
Logan Energy
McDermott
NPL
Phy Consulting
Progressive Energy
REA
Repsol Sinopec
RWE
Shell
SSE
Total
TuV Sud NEL
Woodside

4 AGENDA

The following agenda is in draft and is subject to change:-

Hydrogen Workshop

10:00 to 16:00, 8th October 2019, Energy institute, 61 New Cavendish Street, W1G 7AR

Timing	Plan
09:45	Registration
10:00	Welcome and workshop high-level aims
10:10	EI Council and Scientific and Technical Advisory Committee objectives
10:20	Why the transition to hydrogen is important in decarbonisation to net-zero by 2050
	Current research, knowledge, challenges and needs (part 1):
10:30	Transitioning to hydrogen - assessing the engineering risks and uncertainties
10:50	Hazard and safety issue learnings from existing hydrogen projects
11:10	H21
11:30	Coffee break
11:40	Round table discussions. Issues/topics/gaps identified
12:10	Round table discussions feedback
12:40	Lunch
	Proposed research, knowledge, challenges and needs (part 2):
13:30	Guidelines for Corrosion Management for Hydrogen
13:50	Guidance on Safety Case Development
14:10	Topic 3
14:30	Round table discussions. Issues/topics/gaps identified:
15:00	Round table discussions feedback
15:30	Prioritisation of needs (short vs. long term, high vs. low impact, issue for EI or others (whom?))
15:45	Next steps (EI Scientific and Technical Advisory Committee)
16:00	Chair's closing remarks