

9 MARCH 2020
STAKEHOLDER ENGAGEMENT EVENT SUMMARY

The event on 9 March 2020 was held at Church House, Westminster, almost exactly two years after the first Hy4Heat stakeholder engagement event in March 2018. The session was well-attended with over 200 people, more than double the number of the 2018 event.

Demonstrating the wide-reaching remit of the programme, people from a broad range of organisations attended, including: appliance manufacturers and retailers, academics, energy industry consultants, trade bodies and associations, gas distribution network operators, exhibition agencies and the media.

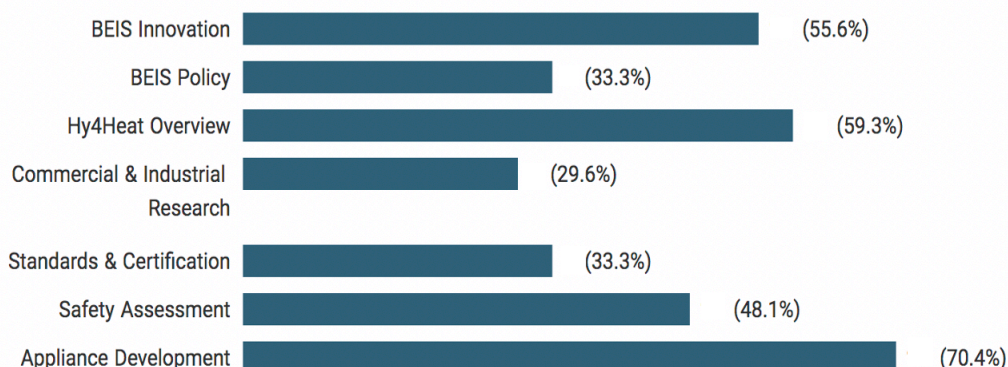
FEEDBACK

A follow-up survey was issued and all who responded stated that the event was useful and / or informative, with positive comments such as:

- *“The breadth of speakers and topics was very useful and shows real progress in such a short space of time.”*
- *“Comprehensive update from BEIS plus a good range of involved parties. Useful to have industry connected directly to government (funding and policy).”*
- *“It is good to see the level of commitment being put in by the Government through BEIS. Seeing what the different collaborators shared was very interesting as well.”*
- *“Good, clear communications, well organised event. A lot of progress has been made in the past two years.”*

PRESENTATIONS

The format of the day was a mixture of presentations and panel discussions, providing the audience with an update on the Hy4Heat programme and its various work packages. The feedback confirmed that the range of presentations ensured that attendees found something on the day to be of interest and informative.



RUNNING ORDER

The day began with an overview from BEIS deputy directors before moving into more detailed presentations on Hy4Heat and its work packages.

BEIS

- BEIS Innovation, Mark Taylor
- BEIS Policy, Richard Leyland

Hy4Heat

- Hy4Heat, Arup+ programme manager Heidi Genoni
- *Panel discussion with presenters joined by Hy4Heat technical lead, Mark Crowther*

Industrial and Commercial Appliances

- Industrial Appliances, Emrah Durusut, Element Energy
- Commercial Hydrogen Appliances, Brett Ryan, ERM

Standards and Certification

- PAS4444, Bob Walsh, BSI
- Standards, Martin Brown, DNV GL
- Certification, Ian McCluskey, IGEM

Safety Assessment

- Safety Assessment, Arup+ Sophie Brown and Albert Law
- Experiential tests, Nick Ryan, Steer Energy
- Experiential tests, Daniel Allason, DNV GL

Appliance Development

- Appliance development Jeff House Baxi
- Appliance development Tom Collins, Bosch
- Appliance development James Maxfield, Clean Burner Systems
- Appliance development, Paul Needley, Enertek
- Appliance development, Hossein Madani, Sadam-Power
- Appliance development, Tony Goose, Pietro Fiorentini
- Appliance development, Darren McNeil, MeteRSit
- *Panel discussion re appliance development as above joined by Bob Walsh, BSI*

Presentation slides from all the sessions above have been published [online](#).

DISCUSSION TOPICS

Panel discussions and Q&A sessions were interactive – and audience members could pose questions in person, as well ask questions and ‘upvote’ comments via their smartphones using an interactive digital platform. In total some 90 questions were asked online and 160 upvotes submitted.

The panel discussions covered a number of themes, including:

- The various strategic heat decarbonisation pathways under consideration, to assist the UK to reach net zero by 2050 and the work of Hy4Heat and other hydrogen

projects assisting the government in providing evidence to inform decision making about the hydrogen pathway

- The need for greater co-ordination and collaboration across the industry to share information and to work together for optimal longer-term outcomes
- The need for a greater understanding among the general public of the different potential decarbonisation pathways and the choices and changes that will be required by energy consumers
- Potential community trials including:
 - timescales
 - size
- Potential move from natural gas to hydrogen and the associated training and upskilling required as well as scalability challenges to be addressed – how a transition process may happen
- Hy4Heat's remit to:
 - complete the safety assessment and achieve HSE's approval
 - develop hydrogen appliances and demonstrate them
 - ensure industry receive necessary reports and standards such as odorant
 - purity, PAS4444, etc
- Hydrogen appliances:
 - when hydrogen-ready appliances are expected to be commercially available
 - cost of appliances and cost of conversion
 - the role these and other appliances will play in the future regarding efficiencies, demand, electrification as well as alternatives such as fuel cells and combined heat and power units
- The safety assessment including the qualitative risk assessment, comparing hydrogen with methane
- Emerging appliance developer findings regarding the lower than expected NOx emissions, lower than natural gas appliances
- Preparations to demonstrate the domestic hydrogen appliances later in the year, with an invitation to tender due, looking for contractors to develop moveable demonstration facilities for use at exhibitions and events

NEXT STEPS



Hy4Heat's stakeholder engagement continues with quarterly newsletters, updated website stories and social media notifications. Several reports are due to be published throughout 2020 and these will be posted on the website, and easily accessible.