

May 2020 newsletter

We hope you're keeping well and safe. It was good to see so many of you earlier this year at our stakeholder engagement event in London. Until we are able to meet again in person, we will continue to keep you up to date with the programme's progress through our quarterly newsletter and website www.hy4heat.info.

Stakeholder engagement event

Thanks to everyone who attended or took part in our stakeholder engagement event on 9 March 2020 in Westminster. It took place almost exactly two years after the first Hy4Heat stakeholder engagement event in March 2018 with more than double the number of attendees. Presenters included senior members of BEIS and the Hy4Heat programme team as well as organisations and companies who are undertaking the work packages such as appliance manufacturers and expert energy consultancies.

[Presentations](#) from the day are available on the website, and so is a [summary](#) of the event including themes from the panel discussions and Q&A sessions. There is also a [gallery of images](#) from this, and the 2018, event.

Hydrogen competency training framework

Energy & Utility Skills has been appointed to develop a competency framework for the training, accreditation, and registration of gas engineers working with hydrogen. The framework will enable people working with hydrogen gas appliances acquire the knowledge and skills to operate in a competent and safe way. It has been established to address the gap that currently exists within the gas industry relating to the training and registration of professionals to work with hydrogen in domestic settings and for a limited scope of non-domestic installations.



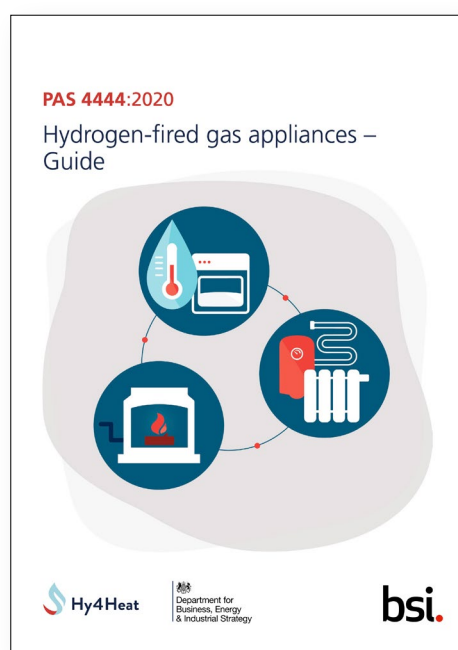
(LtoR): Arup+ (Kiwa) technical lead, Mark Crowther; BEIS deputy director science and innovation, Mark Taylor; Arup+ programme manager, Heidi Genoni; BEIS deputy director policy, Richard Leyland; Arup+ director, Mark Neller

PAS 4444: 2020 published

BSI has issued a new PAS 4444:2020 giving guidance on the development and construction of hydrogen-fired gas appliances, either appliances purpose-built to use hydrogen or appliances designed to be converted to use hydrogen. The PAS is aimed at:

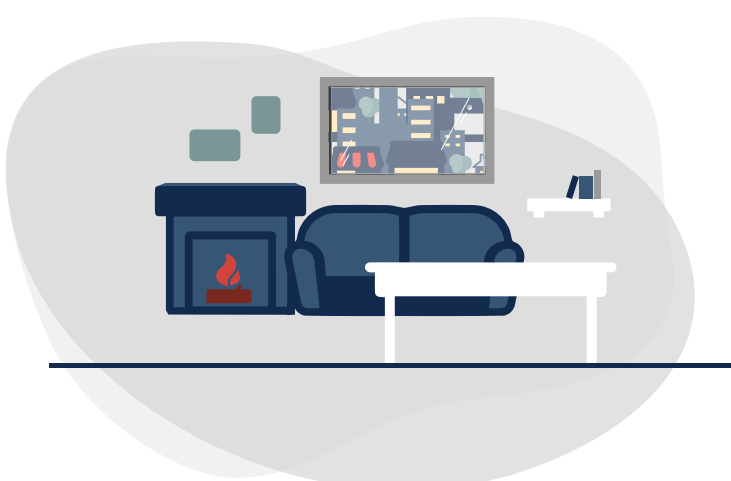
- Manufacturers of hydrogen-fired gas appliances
- Manufacturers of gas appliances that are designed to be converted to use hydrogen
- Notified Bodies and other appliance test houses

The PAS can be [purchased from BSI](#).



Hydrogen demonstration facilities

The process is underway to appoint a contractor to provide hydrogen appliance demonstration facilities for stakeholder engagement purposes. Submissions have been received and it's expected that a supplier will be appointed so that in the future we are able to demonstrate hydrogen appliances at industry exhibitions and conferences.

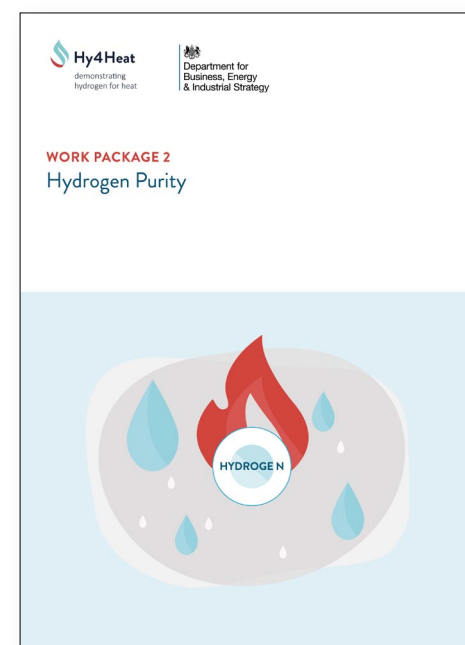


Ancillary system components

BEIS is looking to appoint contractors to develop ancillary components – including pipes, connectors, control valves, excess flow valves – needed for the safe installation of hydrogen appliances. Submissions have been received and it's expected that contractor(s) will be appointed in the coming months.

Hydrogen purity report published

The [report](#), from DNV GL, with support from NPL, HSL, Element Energy and Loughborough University, makes a recommendation for a minimum hydrogen purity standard to be used by manufacturers developing prototype hydrogen appliances and during their subsequent demonstration, as part of the Hy4Heat programme. It makes a recommendation for a hydrogen purity level with the aim that it is reasonable and practicable and considers implications related to hydrogen production, the gas network and cost.



Futurebuild 2020

Hy4Heat programme manager Heidi Genoni presented Hy4Heat's work at Futurebuild 2020 in March, at London's Excel conference centre. Futurebuild is one of the UK's largest built environment conferences and exhibitions and held in early March. Heidi was part of a team of panellists discussing 'strategies for delivering affordable low carbon heat'. All Futurebuild 2020 [keynote speeches and seminars](#) are available to view for free.

Commercial appliance development underway

Contractors have been appointed to develop commercial hydrogen appliances, boiler systems and ancillary system components under an SBRI competition. This is part of Hy4Heat's work package 5.

Bosch Thermotechnology Ltd, Enertek International and SOLIDpower S.p.A. have all been awarded contracts.



Coming up

Keep a look out on the website for reports due to be published in the coming months including:

- Hydrogen colourant
- Commercial appliances

Get in touch

If you've received this quarterly newsletter you're on our database and will be receiving updates about Hy4Heat's progress. If you've been forwarded the newsletter by a colleague, just send us a note with your contact details and your organisation's name to Hy4Heat@arup.com or sign up on our website. We won't bombard you – and you can unsubscribe anytime.