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In this edition of **DeliveringDecarb** we'll be rounding up some of the most exciting and important gas decarbonisation news stories from November, including the latest Government announcements from COP27. In our spotlight section, we take a look at the innovative new 2050 Energy Pathfinder simulation tool from Wales and West Utilities, and explore how it can help local authorities plan for the future. We're also delighted to be able to share the first of our DecarbDiscussions podcast sessions. Let us know if you like what you hear.

And don't forget to check our Dates for your Diary section if you're keen to add your voice to the conversations taking place about decarbonisation in your industry.

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## 01 Notable news

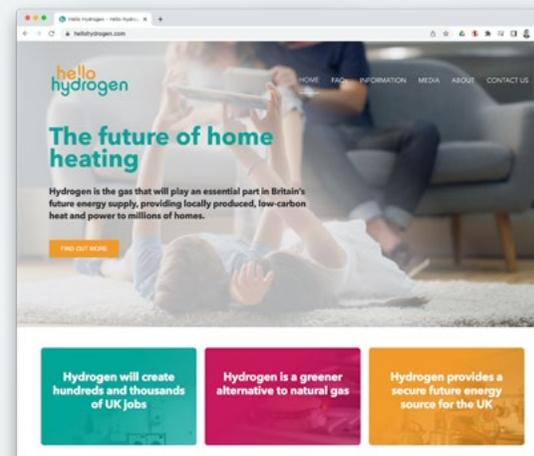
### Hello Hydrogen campaign launches

The Hello Hydrogen campaign is a joint initiative from some of the biggest names in the UK's energy industry. Bringing together gas distribution networks, boiler manufacturers and energy suppliers, the campaign aims to raise awareness of the essential role hydrogen has to play in providing low-carbon heat and power to UK homes.

The Hello Hydrogen team comprises representatives from National Grid, Northern Gas Networks, Cadent, British Gas, HHIC, Worcester Bosch, SGN, Ideal Heating, Ryse Hydrogen, Baxi, Valiant Group, The Institution of Gas Engineers and Managers, Hydrogen UK and the Energy and Utilities Alliance. The team is calling on the Government to provide guidance for consumers and a clear commitment to hydrogen, which can provide a low carbon heating choice for households

where more expensive and space dependent options like heat pumps are unrealistic. A new information hub created as part of the campaign will help consumers gain a better understanding of hydrogen and highlight the ease with which they will be able to install new like-for-like hydrogen-ready boilers in a cost-efficient way.

[Read more](#)



### Plans announced for major hydrogen pipeline in South Wales



On 7th November, Wales & West Utilities announced plans for Hyline Cymru; a project that will assess the feasibility of a pipeline network from Pembroke to the Swansea Bay area. This major new pipeline could potentially link low-carbon hydrogen production to industrial demand, providing an alternative

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for natural gas customers and paving the way for commercial-scale hydrogen production in Pembrokeshire, Port Talbot and the Celtic Sea.

The Hyline Cymru project is headed up by Wales and West, and brings together eight other organisations: Associated British Ports (ABP), Dolphyn Celtic Sea Developments, LanzaTech, National Grid Gas Transmission (NGGT), Pembrokeshire County Council (PCC), RWE, Shell, and Tata Steel UK. If successful, it is hoped that Hyline Cymru will also eventually connect to National Grid's Union project, which seeks to establish a National Hydrogen Transmission system that connects all of the UK's industrial clusters.

[Read more](#)

### **New report: Enabling hydrogen blending from industrial clusters**

This month sees the launch of a new report from the Energy Network Association (ENA). Entitled 'Enabling hydrogen blending from industrial clusters', the report reveals findings from research into the capability of the existing UK gas network to transport blended hydrogen with only limited changes to existing commercial and regulatory frameworks. The study, commissioned by the gas transporters as part of the Gas Goes Green programme, has confirmed that hydrogen can be blended into the natural gas network at volumes of up to 20% and that this can be achieved through the hydrogen industrial clusters already in development; optimising their value.

The ENA has also published a series of hydrogen blending capacity maps, detailing how blending capacity can be delivered.

According to the maps, total capacity at 20% blend could be up to 60TWh pa. That's equivalent to heating around 5 million homes, providing carbon savings of 10 million tonnes each year.

[See the maps](#)  
[See the full report](#)



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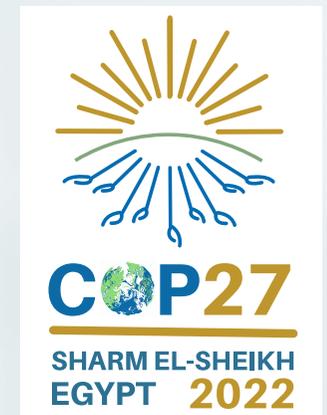
### £65 million green tech fund for UK announced at COP27

On 11th November, UK business secretary Grant Shapps announced that UK Government would make a £65 million investment in the development of green technology. The investment demonstrates the UK's intention to lead the way in making green technologies cheaper and more accessible around the world. Backed by the talent and expertise of British entrepreneurs and innovators, it could also help to create green jobs for generations, both in the UK and abroad.

Speaking at the COP27 negotiations, Grant Schapps announced a series of actions the UK is taking to help tackle climate change including: building a coalition of governments to speed up the development of new alternatives to fossil fuels for the carbon-intensive sectors; a UK pledge of £65 million towards

the world's first large scale Industry Transition Programme, to support energy-intensive industries in developing economies; the UK government's support, alongside Germany, for a new funding window set to open in 2023 for projects developing clean technologies for key priority sectors – energy, transport and industry – as identified in the Breakthrough Agenda at COP27.

[Read more](#)



## 02 Spotlight on... The 2050 Energy Pathfinder

Created by Wales and West Utilities, the **2050 Energy Pathfinder** is an innovative simulation tool that enables any energy scenario, current or future, to be modelled for a town, city, county or country. The simulator can demonstrate the feasibility of different energy solutions, providing users with a projection of the associated costs, carbon impact, and shortfall or surplus in energy supply.

2050 Energy Pathfinder has already been used to evaluate independent proposals for a renewable Cornwall and to model alternative solutions for use in Swansea, where tidal lagoons have been identified as key to an integrated energy future. Wales and West hopes that the tool will support local authorities across the UK in their energy planning endeavours.

The simulator has been extensively peer tested and has been fine tuned to respond to the needs of a variety of different users. It is also available in an expert and more user friendly version: Pathfinder Plus and Pathfinder Light.

[Read more](#)



## 03 Things to look out for

### Listen to the first DecarbDiscussions podcast

Our inaugural podcast session is now live and can be accessed wherever you usually find your podcasts, including Apple, Spotify and TuneIn. In this session, hear Suki Ferris, Hydrogen Market Strategy Lead at National Grid Gas Transmission in conversation with our very own Decarbonisation Strategy Lead Victoria Mustard about the new hydrogen Guarantee of Origin (GoO) scheme. Discover why National Grid believes it will be so important to developing a successful low-carbon gas economy and how I&C businesses will benefit.

[Listen here](#)

### Hydrogen village update

#### Pay a visit to the Hydrogen Experience Centre in Whitby

Last month saw the opening of Cadent's Hydrogen Experience Centre. Based in Whitby, Ellesmere Port, the hydrogen demonstration facility is the first to open to the public and offers an opportunity for anyone interested in how hydrogen can be used to power homes to interact with new hydrogen-ready appliances. It is hoped that the centre will help to raise awareness of the need for alternatives to natural gas and build confidence in hydrogen as a fuel of the future.

[Learn more and book your visit](#)

#### Discover the Redcar Hydrogen Community hub

Northern Gas Networks (NGN) is proposing to supply around 2,000 homes and businesses in Redcar with hydrogen from 2025. To engage local communities with the project, NGN has launched a new online community hub, complete with videos, important information and a project map. Residents in Redcar and Kirkleatham will find out in 2023 whether their area has been selected for hydrogen conversion. The project is set to go live in 2025.

[Learn more](#)

## 04 Policy milestones

Here are the key Government policy / regulatory milestones:

- **Autumn 2022** - Indicative assessment on the value-for-money case for [blending hydrogen](#) in the existing network
- **Q4 2022** - [Business model](#) for hydrogen support finalised
- **2022** - Decision on [rebalancing policy costs](#) between electricity and gas
- **2022** - Final investment decisions on two 'Track 1' [Carbon Capture & Storage \(CCS\) clusters](#)

- **2023** - Final policy decision on [hydrogen blending](#)
- **2023** - First [hydrogen support contracts](#) allocated
- **2023** - Decision on hydrogen village location
- **2025** - New business models for hydrogen transport and storage infrastructure designed
- **2025** - Hydrogen certification scheme introduced

- **2025** - Hydrogen village trials to commence
- **2025** - Target for reaching 1GW electrolytic hydrogen production capacity and price competitive annual allocation rounds
- **2030** - New target for creating up to 10GW low carbon hydrogen production
- **2030** - Hydrogen town trial to commence



## 05 Dates for your diary

We'd love to see you at our Hydrogen Implementation forums! To join, please email [box.xoserve.decarbonisation@xoserve.com](mailto:box.xoserve.decarbonisation@xoserve.com)

### Don't miss these upcoming sessions:

<b>Shipper working group</b>	Friday 2nd December	14:00 - 15:30
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<b>Network working group</b>	Monday 18th December	10:00 - 12:00
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<b>IGT working group</b>	Friday 16th December	10:00 - 11:00
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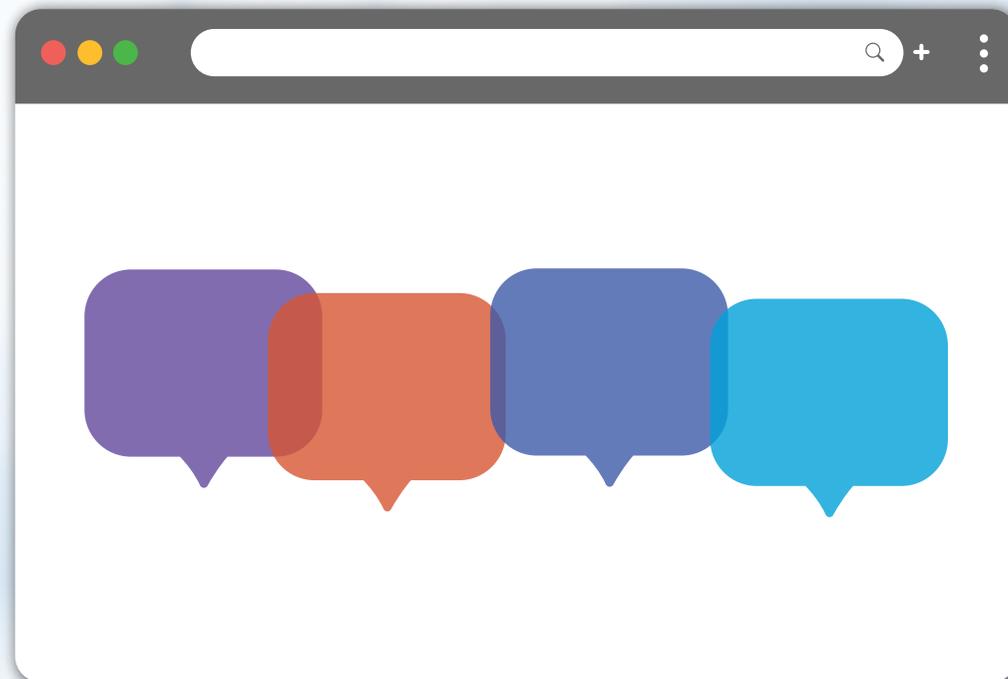


## 06 Keeping in touch

We've been working on a range of initiatives designed to help raise awareness of gas decarbonisation and keep everyone in the industry connected. Now launched, our DecarbDiscussions podcast will cover a range of topics from different industry perspectives. If you'd be interested in getting involved and hearing your voice on our podcast channel, please get in touch.

And don't forget to sign up to our industry 'intranet'. An exclusive resource for the gas industry, the intranet is designed to help you stay up to speed with the latest news, new projects and policy changes. It acts as a central repository for essential information related to your industry, some of which may not yet be available as a public resource. If you would like access to this site, please contact:

[box.xoserve.decarbonisation@xoserve.com](mailto:box.xoserve.decarbonisation@xoserve.com)



## 07 Could your business support the Fuel Bank Foundation?

**It's hard to believe some people in the UK today are living without heat, light and power because they don't have the money to top up a prepayment meter.**

Xoserve is a passionate supporter of @Fuel Bank Foundation, an organisation doing essential work to provide people with the financial support and practical advice they need to get back on their feet. An unbelievable 96% of people supported by the foundation have to make the choice between heating or eating, while 45% ration their hot water use each day.

If you're interested in supporting this incredible charity, [find out more here.](#)

The screenshot shows the Fuel Bank Foundation website. At the top left is the logo 'fuelbank FOUNDATION'. To the right is a 'DONATE NOW' button and a menu icon. The main heading is 'HELPING HOMES IN FUEL CRISIS.' Below this is a paragraph: 'Prepaying for energy but not having the money to do so means living without heat and light. We provide people with the financial support and practical advice that they need to get back on their feet.' There is a 'FIND OUT MORE' button with a right arrow. Below this are two columns: 'I WANT TO HELP' with a heart icon and 'I NEED HELP' with a hand icon. At the bottom, a paragraph states: 'It's hard to believe that some people in the UK are today living without heat, light and power. This is because they don't have money to top up their prepayment meter. These people live in cold homes and are unable to cook a hot meal for their family, or have a shower before a job interview. It's only getting worse. We call this Fuel Crisis.'