



## YOUR NGN NEWS UPDATE

April 2023



### **Redcar Hydrogen Community proposal goes to Government**

At the end of March, our hydrogen programme reached a momentous milestone when we submitted the detailed design of our Hydrogen Village, Redcar Hydrogen Community to the Department of Energy Security and Net Zero (DESNZ).

During the consultation period, over 800 engineering surveys were completed by British Gas and Corgi at properties in the area, and a consultation survey was facilitated through an independent research company.

This was answered by 699 residents and property owners and showed that 76% of respondents felt positive or very positive about our proposal, 19% were indifferent or undecided and 5% were negative or very negative.

Our proposal involves supplying around 2,000 properties in some areas of Redcar with 100% hydrogen.

Homes and Businesses would need to change appliances for 100% hydrogen versions or, if they wish to opt out of using

hydrogen, they will need to have electrical appliances installed as it will not be possible to continue to use natural gas.

### **What happens next?**

The decision about which village location progresses is expected to be made around September this year.

Once given the go ahead, the successful GDN will have two years to 'build and prepare' before the first customers start to receive hydrogen late in 2025.

The conversion of the 2,000 properties will take place over a few months and customers will use hydrogen for a minimum of two years before a decision is made about whether to continue the use of hydrogen or revert back to natural gas.

[Find out more](#)

## **CREATING A HYDROGEN INFRASTRUCTURE FOR THE EAST COAST**



We will soon be launching our East Coast Hydrogen website, which is an exciting collaboration with National Gas and Cadent. The project aims to make a valuable contribution to Net Zero by 2050, by creating a cost-efficient hydrogen network whilst positioning the UK as a global leader in hydrogen.

The project looks at how we may re-purpose our existing assets and develop new infrastructure to connect hydrogen produced in the Humber and Teesside industrial clusters with demand points across the East of England.

Over a 15-year timescale, the project will connect production with local storage and neighbouring hydrogen schemes, eventually expanding to bring a hydrogen network to urban areas, reaching over 10 million people.

It will be the first major step in the conversion of our national gas networks to hydrogen and will act as a blueprint for subsequent conversions across the UK. The project will also demonstrate the innovation, engineering capabilities and economic opportunity in the North, and create tens of thousands of highly skilled green jobs in the future hydrogen economy.

Over the coming months, we will be working with our partners to develop a delivery plan, and we hope to be able to publicly launch this come Autumn.

## In other news:

### **NGN contributes to groundbreaking hydrogen research project**

NGN has successfully secured funding to carry out vital research into the offshore production of hydrogen.

The Hydrogen Cost Reduction HyCoRe programme, backed by OFGEM's Strategic Innovation Fund, will spend 12 weeks developing a detailed understanding of the integration between offshore wind and electrolysis, with a particular focus on identifying the optimal placement of infrastructure such as electrolyzers and energy storage to maximise the cost and resilience of the energy system.

The goal is ultimately to develop a specialist tool that will be able to quantify the costs and trade-offs, while simulating different configurations of electricity, gas, and hydrogen infrastructure.

Keith Owen, our Head of Systems Development and Energy Strategy said: "Successful integration of hydrogen by leveraging existing energy networks will reduce the capital expenditure

required to support the net-zero transition by 2050, this will ultimately benefit the consumer.

“However, achieving this integration will require the adoption of novel technologies and new planning approaches, so we’re extremely pleased to have secured the initial funding for this important work.”

NGN will be joined in the programme by a number of other industry partners, including the Offshore Renewable Energy (ORE) Catapult, Kinewell Energy, Lhyfe UK, NationalGrid Gas (NGG), Southern Gas Networks (SGN), Ove Arup and Unasys.

## Get involved!

### **Northern Gas Networks & Partners - Supporting Communities Together Event**

We would like to invite you to our annual partner event – Supporting Communities Together. The event will provide a great opportunity to meet many of our charity partners from across our network, and also a number of our internal teams, to learn more about the work that Northern Gas Networks is doing across the region, including innovation projects and our work towards de-carbonisation.

The Supporting Communities Together Event will take place **on Wednesday 24th May between 11am-1pm**, and we would be delighted if you could join us at this event, **which will take place at The Royal Station Hotel, Neville St, Newcastle upon Tyne NE1 5DH**. The venue is close to rail and transport links and has parking facilities nearby. Please register your interest **by close of play on Friday 19th May**.

**Find out more**

### Get in touch...

If you have any feedback about this e-bulletin or any questions about our work, we'd love to hear from you.

Just email [stakeholder@northerngas.co.uk](mailto:stakeholder@northerngas.co.uk)

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