

Gas Goes Green Insights Forum

Thursday 27th April 2023



Agenda

ltem	Speaker
Welcome	James Earl, ENA
What to expect from Gas Goes Green in 2023	James Earl, ENA
Q&A on our programme for the rest of 2023	James Earl, ENA Vicky Mustard, Xoserve
A hydrogen vision for the UK: overview	James Earl, ENA
Deep Dive: A hydrogen vision for the UK	David Watson, Cadent
A hydrogen vision for the UK: The hydrogen opportunity in Northern Ireland	Mark Alexander, Mutual Energy
Q&A on A hydrogen vision for the UK	James Earl, ENA David Watson, Cadent
Wrap up	James Earl, ENA



Thank you for joining the Gas Goes Green Insights Forum.

- The meeting is being recorded and will be shared on ENA's YouTube Channel. By staying on this call, you consent to this.
- If you are unable to play the audio through your device, you can dial in by calling +44 20 3855 5885 (UK London) (Conference ID: 784 303 264#).
- Please mute your microphone to avoid disruption.
- Please submit comments and questions via Slido.com you can join the session by scanning the below barcode or using the code: GGGIF





What to expect from GGG 2023 James Earl, ENA





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What to expect from Gas Goes Green in 2023

Hydrogen Blending:

- Functional Specification
- Market frameworks
- Capacity and Connections



Future of gas networks:

- A hydrogen vision for the UK
- Impacts of reducing gas demand
- Role of biomethane and hydrogen in a decarbonised grid



Comms and stakeholder engagement:

- International Hydrogen
 Commitment Comparison
- Green Gas Scorecard
- Review Groups and Insights Forums





Q&A on our programme for the rest of 2023



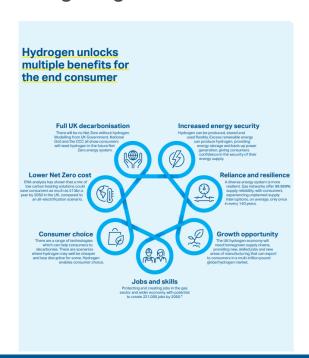
A hydrogen vision for the UK David Watson, Cadent





A hydrogen vision for the UK

- Published on Wednesday 19th April
- Collaborative project between GDNs, NGT and Mutual Energy
- Sets out a plausible vision, rooted in a robust scenario, to show the role hydrogen can play in supporting the UK meet its Net Zero target
- Brings together a series of network case studies, network pledges and clear policy asks









Gas Goes Green Insights Forum

The Hydrogen Opportunity in Northern Ireland

Mark Alexander, Energy Transition Manager (Mutual Energy)



Who We Are







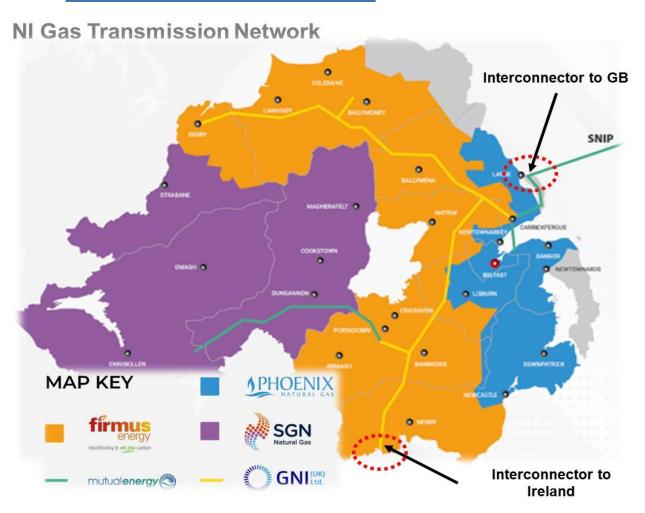


- Own, operate and manage energy infrastructure on behalf of Northern Irish consumers
 - Interconnection assets
 - On-shore gas transmission
- With GNI UK, provide TSO and gas market operator services



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Gas Market Overview

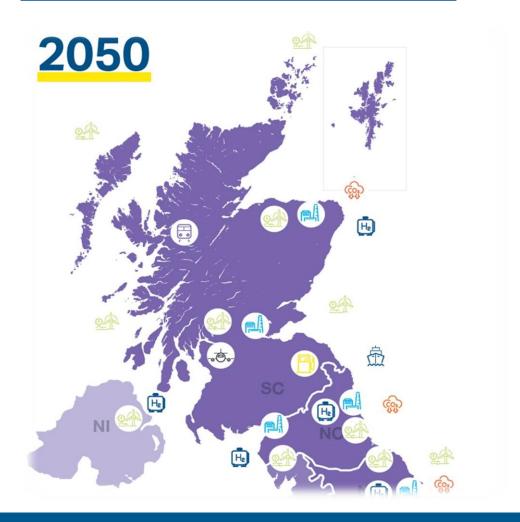


- Modern network infrastructure
 PE distribution pipes
- Small but growing market annual demand c17TWhs, c320k customers
- Majority of gas imported from GB - average c4 mscm/day





Gas Network Decarbonisation



- Large agricultural sector significant potential for biomethane in NI
- Biomethane expected to play a greater role in decarbonising gas supply than in GB
- Hydrogen however critical to achieving net zero targets



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The Green Hydrogen Opportunity

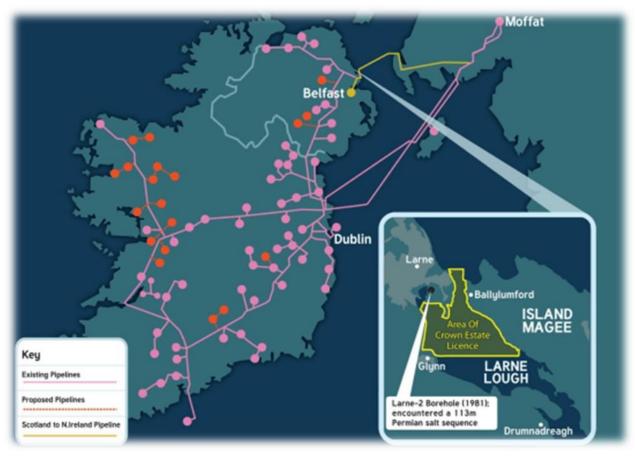


- Synergies between wind generation and green hydrogen production
 - Ambitious renewable electricity targets
 - Reducing electrical export opportunity
- Green hydrogen production essential to maximise Nl's renewable energy potential



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Hydrogen Storage Potential



- Potential for salt-cavern hydrogen storage:
 - Provide inter-seasonal storage solution for renewable energy
 - Help reduce Northern Ireland's reliance on imported fossil fuels
 - Improve future security of supply of decarbonised energy across GB and Ireland





Hydrogen Readiness



Project Curran

Hydrogen blending project with Phoenix Natural Gas

Ballylumford P2X

Large-scale project aiming to combine offshore wind and electrolytic hydrogen production with salt-cavern storage and power generation.



- Collaborating with NG and GNI UK on roadmap for introduction of hydrogen at Moffat
- Partnering in the pre-development of two potential projects
- Development of indicated hydrogen pipeline could help facilitate emergence of a 'hydrogen valley'

Essential Northern Ireland keeps pace with Great Britain

Mark Alexander – Energy Transition Manager mark.alexander@mutual-energy.com

Shane Rafferty – Energy Transition Policy Lead shane.rafferty@mutual-energy.com



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Q&A: A hydrogen vision for the UK



Wrap up James Earl, ENA



Wrap up

- Thank you for attending today
- The recording will be uploaded to YouTube
- The next Insights Forum will be held in October 2023
- If you would like to contact the programme team directly, please do so at GasGoesGreen@energynetworks.org



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