



Gas Goes Green: Hydrogen Deblending Workshop Speakers
17th July 11:00-13:00

Dr Thom Koller, *Programme Lead, Gas Goes Green, ENA*

Thom leads Energy Network Association's Gas Goes Green programme, the gas network blueprint to meet the challenges and opportunities of climate change, delivering net zero in the most cost effective and least disruptive way possible. He represents ENA's 'wires and pipes' transmission and distribution network operators for gas and electricity in the UK and Ireland. Thom previously worked on green gas and energy policy in the biomethane sector. His PhD from the University of Birmingham focuses on international law.

Antony Green, *Project Director – Hydrogen, National Grid*

As Project Director – Hydrogen, Tony has responsibility for leading the thinking for gas transmission to play its role in the pathway to net zero through decarbonising the network either through hydrogen blends or even a full transition to hydrogen.

Tony joined National Grid two years ago as Head of Engineering and Asset Management. A Civil Engineer by degree Tony has worked in the utilities and infrastructure sectors for over 30 years. He began his career at Severn Trent before moving to Advantica and then DNV GL in a variety of business and sector leadership roles providing a broad range of advisory services and asset management solutions.

Tony is a Chartered Engineer and a Fellow of both CIWEM and IGEM. As immediate past President of IGEM he is a member of the Executive Board and Council and is also board member of GERG and Marcogaz.

Lloyd Mitchell, *Innovation Project Lead, National Grid*

Lloyd first joined National Grid Gas Transmission as an Asset Engineer managing the effective operation of Above Ground Installations. Since then he has held roles in Strategy and project development, and now uses his engineering knowledge to support the development and delivery of key hydrogen innovation projects.



Lorman Correa, *Process Engineer and Study Manager, Petrofac*

Lorman E. Correa is a Process Engineer and Study Manager with Petrofac. He focuses on engineering developments for the Oil and Gas Processing and Refining industries. He has worked integrating and evaluating technologies for gas pre-treatment, fractionation and cryogenic processes for LNG production, as well as refinery flowsheet optimisation, hydrogen and heat integration, engaging with process licensors and implementing open art technologies. He is a Chartered Engineer (CEng) and a Chartered Member of the Institute of Chemical Engineers (MIChemE) in the UK and holds a Chemical Engineering Degree from Universidad Simon Bolivar in Venezuela and a Master of Science (MSc) degree in Process Integration from the University of Manchester Institute of Science and Technology (UMIST) in the UK.

Keith Owen, *Head of Systems Development & Energy Strategy, NGN*

Keith is a Chartered Engineer who began his career with British Gas in 1991 and has had a variety of roles within the industry throughout his career. He was the Programme Director for the NGN H21 hydrogen programme until mid-2019 and sits on the HyDeploy programme steering board.

Keith chairs the Institute of Gas Engineers and Managers [IGEM] Hydrogen Committee which is working to revise all industry standards to incorporate hydrogen as the low carbon gas for heat. He represented NGN on the UK Hydrogen Programme Development Group, which seeks to develop a nationally aligned strategy and research delivery programme that will deliver a future hydrogen economy for the UK.

Keith is the project manager for InTEGReL, the whole energy systems research and development centre launched in 2017, and which also hosts HyDeploy2, blending up to 20% hydrogen into the existing gas network. Through InTEGReL he sits on a number of Industrial Advisory Committees including the National Centre for Energy Systems Integration, led by Newcastle university and the Supergen Energy networks.

Adam Baddeley, *Head of Project Delivery, Progressive Energy*

Adam joined Progressive in 2016 following nearly 20 years of consulting experience for Government and the private sector. An accomplished project and programme manager, he is currently leading a major fuel switching demonstration programme, working in partnership with Pilkington, Essar and Unilever. Adam has significant commercial experience, having led due diligence exercises and bids on behalf of Orsted, RWE Npower, SSE, Lloyds, Foresight and Barclays. Prior to joining Progressive, Adam also managed the interface between several consortium members bidding in



the first UK CCS Competition, and led engagement with Government during several phases of procurement under a Negotiated Procedure.

David Jones, *Sustainable Transport Strategy Manager, Cadent*

David Jones is the Sustainable Transport Strategy Manager at Cadent Gas, formerly National Grid Gas Distribution, with responsibility for developing the company's low-carbon transport infrastructure strategy, an important part of the company's broader Future Role of Gas strategy. David is a Chartered Engineer with over 30 years of experience in the energy sector, specialising in climate change strategy, carbon management, and sustainable gas technologies including alternative fuelled vehicles. David has held senior positions in Shell, BG Group, Centrica and British Gas. More recently, David has created a portfolio of innovative projects which consider, amongst other important topics, optimisation of future network delivery of hydrogen for transport in the North West, and investigation of the impact of network purity on future hydrogen transport applications.

Dr Phil Cahill, *Head of Strategy, RWE Generation UK*

Phil heads up the Strategy and Portfolio Development Groups at RWE Generation. His team leads work on CCS and hydrogen development for RWE Generation including Industrial Decarbonisation Cluster engagement. He started his career working on coal gasification combined cycle technology development before joining National Power in 1997, then having various roles in Engineering before joining Business Development in 2010 and then Strategy in 2017.

Tom Neal, *Innovation Manager, Gas Transmission, National Grid*

Tom has over eight years' experience in National Grid, covering both Gas Distribution and Gas Transmission. Tom joined National Grid in 2011 as part of the Graduate Development Programme, having graduated from the University of Birmingham with a Business Management Degree.

During his time at National Grid Gas Distribution, Tom completed a number of Graduate Placements in customer-facing roles before joining the Innovation Team mid-2012. Here he gained a wealth of experience across the end to end innovation process and has forged key links across the industry. In early 2016 Tom joined the Gas Transmission Innovation Team where he's held several roles, bringing together best practice across innovation and building a strong track record of performance for Gas Transmission.



Tom's current role focuses on building a culture of innovation across the organisation, delivering a strong portfolio of innovation and collaborating across the industry to deliver the best value to the UK gas customer.

Mark Danter, *Senior Project Manager, H21, NGN*

Mark is a very experienced Chartered Engineer with a proved track record of delivering a programme of multi-disciplinary projects. These projects includes managing projects across the gas network from new NTS 48" pipelines and off-take upgrades through to the governors on distribution network. Mark has been involved with several innovation and pilot projects within the gas industry as well as being the Project Director for the gas conversion from LPG to natural gas in Douglas on the Isle of Man. Mark has been the Senior Project Manager for the H21 suite of projects since preparing the initial phase 1 NIC bid in 2017.

Nancy Thomson, *Energy Futures Project Manager, SGN*

Nancy Thomson, Energy Futures Project Manager at SGN, been at SGN since 2016. Previously worked as a Pipeline Integrity Engineer for oil and gas companies all around the world. 12 years' experience working on high pressure transmission pipeline onshore and offshore. MSc in Pipeline Integrity Management.