

For immediate release

PRESS RELEASE

Release of: Hydrogen-Exploring Opportunities in the Northern Ireland Energy Transition

An in-depth study investigating how to successfully establish a hydrogen economy within Northern Ireland.

[Gencomm](#) Partners, [HyEnergy Consultancy](#) and [National University of Ireland Galway](#) (NUI Galway) together with associate project partner [Dublin City University](#) (DCU) have published a new report which examines the opportunities presented by hydrogen in Northern Ireland's green energy transition. The report was funded by Northern Ireland's Department for the Economy to contribute to the evidence base for the development of a new Energy Strategy. It reviews progress Northern Ireland is making towards its decarbonisation goals, its unique challenges, and opportunities, and identifies the potential roles for hydrogen in enabling greater renewable energy deployment, through energy storage and reduced curtailment and sector coupling. It then identifies energy demand sectors that hydrogen could help in decarbonising, such as buses, trains, and its use in the gas grid for heating. The research team presents the results of case studies for green hydrogen, hydrogen produced by electrolysis powered by renewable electricity, and deployment in Northern Ireland in 2030. Scenarios for decentralised, regional, and centralised electrolysis and end use are explored. The results demonstrate the technical, environmental, and economic feasibility of hydrogen production and use at scale in Northern Ireland. The report goes on to explore the unique strengths Northern Ireland can bring to bear on hydrogen in the energy transition. These include world class onshore and offshore renewable energy resources, an entrepreneurial and innovative engineering and manufacturing sector, strong and modern electricity and gas interconnections with Great Britain and Ireland, and large-scale salt cavern storage sites.

The study's lead researcher, Dr Rory Monaghan of the NUI Galway Ryan Institute for Marine, Environment and Energy Research, says "This report really just scratches the surfaces of the positive impact hydrogen could make in Northern Ireland's energy transition and economy. The potential for clean and secure energy to attract investment, as well as provide local jobs in emerging hi-tech sectors could transform Northern Ireland. We hope that our work can spur further interest in hydrogen's role in Northern Ireland's energy future."

Ian Williamson, CEO of HyEnergy said "We see this report as just the start of the process. Hydrogen is becoming key to the decarbonisation plans of many countries. The development of a Northern Ireland hydrogen strategy will highlight the Province's ambition internationally. It will provide a platform for both enhanced renewable energy penetration into the region's energy mix and the deliver highly skilled jobs over the next decade."

Dr James Carton, Assistant Professor at Dublin City University, said "Northern Ireland is leading the way in the integration of renewables with other sectors such as transport, using green hydrogen. This report highlights the fervent prospect for hydrogen to become a key part of Northern Ireland's economy and low carbon energy transition."



About HyEnergy:

HyEnergy is an experienced consultancy group specialising in uniting the hydrogen and energy communities by supporting the delivery of new, clean technical solutions for a sustainable future.

HyEnergy's new Dutch sister company, HyEnergy Consultancy (Europe) B.V. based in Eelde, Drenthe, is focussed on participating in selected European opportunities. Our people have over 50 years of expertise within the global hydrogen and renewable energy sectors, which we use to provide a suite of hydrogen centric services to industry, local/regional public sector organisations and national governments.

About National University of Ireland Galway:

NUI Galway is a centre of academic excellence in Ireland. It has a long-established reputation of teaching and research excellence in Colleges of Arts, Social Sciences, and Celtic Studies; Business, Public Policy and Law, Engineering and Informatics; Medicine, Nursing & Health Sciences, and Science. NUI Galway is a member organisation of MaREI (Marine and Renewable Energy Ireland), a €30m Research Centre backed by industry and Science Foundation Ireland. NUIG is a partner in the GENCOMM SEAFUEL and HUGE hydrogen projects.

More information is available at <http://hy-energy.co.uk/>

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