

Case Study

NORTHERN IRELAND HYDROGEN

Logan Energy are responsible for the entire hydrogen production, distribution, and refuelling process for the Belfast Bus Project in Northern Ireland after successfully securing three prestigious contract wins.



PRODUCTION

Logan Energy is integrating, operating, and maintaining an Elogen 1MW electrolyser at a wind farm in County Antrim, as well as manufacturing a hydrogen compression module and a filling unit for the three hydrogen tube trailers.



DISTRIBUTION

Irish energy leader, Energia Group, chose us to supply and maintain three hydrogen tube trailers to support the safe transportation of hydrogen from the production site to the HRS in Belfast.



REFUELLING

For the third part of the project, we designed and installed a hydrogen refuelling station (HRS) in Belfast. Supporting the rollout of three hydrogen buses in the city which will be operated by Translink.

“We are proud to play such a significant role in Northern Ireland’s hydrogen infrastructure. It is great to see the country **turning to green hydrogen to aid the transition to clean energy.**” – *Bill Ireland*



“We hope to see more green hydrogen projects like these spring across the UK as we move full steam ahead towards achieving our net zero goals.” – *Bill Ireland*

COMPRESSION & DISTRIBUTION

Hydrogen Produced	H2 provided at 30bar
Compression Rate (min)	17kg/hr Fill 2 Trailers
Trailer Capacity	320kg at 300bar



HYDROGEN REFUELLING STATION

Hydrogen Supply	Trailer Connection
Compression	30 - 450bar
Hydrogen Storage & Capacity	Integrated 180kg
Hydrogen Dispensing	3 buses back-to-back 350bar
Dispensing Protocol	MC Method
Fill Time (25kg tank)	From 20 minutes

