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More power-to-gas – Cure for the renewable intermittency curse?

Last month, Gas Matters published an interview with Professor Jonathan Stern in which he urged the gas industry to adopt the message that “gas can decarbonise”. One of the technologies Stern highlighted to support this message was power-to-gas (PtG), which uses excess power generated at times of high renewables output to produce hydrogen, which is then either stored, used as a fuel or blended into the natural gas pipeline system. This approach is attracting a huge amount of interest, with around 40 pilot or demo projects underway in Europe. The potential for PtG to help balance the electricity grid while making use of the established gas network is considerable, but there are a number of significant obstacles to overcome before its widespread adoption. Gas Matters takes a look at the current status of PtG and its implications for the natural gas industry.



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