

Terra Firma Energy welcome UK Government Consultation on Hydrogen Blending into Great Britain's Gas Transmission Network

Terra Firma Energy welcome UK Government Consultation on Hydrogen Blending into Great Britain's Gas Transmission Network.

LONDON, UNITED KINGDOM, August 5, 2025 /EINPresswire.com/ -- Future-Proofed and Hydrogen-Ready

At Terra Firma Energy, we welcome the UK Government's consultation into the blending of Hydrogen into Britain's Gas Transmission Network as a timely and positive step forward for both the UK's decarbonisation goals and the future of flexible power generation. All our projects are engineered to be hydrogen-ready from the outset, ensuring long-term operational flexibility and resilience in a rapidly evolving energy landscape. By anticipating changes in fuel supply and regulatory frameworks, we have future-proofed our generation assets to adapt quickly to low-carbon solutions like hydrogen blending. The ability to support hydrogen integration, even at early-stage blend levels, reinforces our commitment to sustainable innovation and positions our portfolio to contribute meaningfully to a net zero grid.



Terra Firma Energy's Burtonhead Project - St. Helens U.K.



Terra Firma Energy's flexible generation site Miner's Road, Wrexham, U.K.

The Department for Energy Security and Net Zero (DESNZ) has launched a new consultation exploring the potential for blending low-carbon hydrogen into Great Britain's gas transmission network.

Following previous consultations on hydrogen blending into local distribution networks, the government is now seeking views on whether introducing hydrogen at the transmission level - the high-pressure National Transmission System (NTS) - could offer strategic and economic value.



Terra Firma Energy's 5MW flexible generation site in Droitwich Spa, U.K.

A Step Toward Net Zero

Hydrogen is seen as a key player in the UK's push to reach net zero emissions by 2050. Blending

“

We at Terra Firma Energy welcome the UK Governments consultation on hydrogen blending into the gas transmission network. Our future proofed projects are built with hydrogen ready generation sets.”

*Richard Meakin - Managing
Director of Terra Firma
Energy.*

low-carbon hydrogen with natural gas could offer a transitional path, supporting early-stage hydrogen production while reducing the carbon intensity of the existing gas network.

DESNZ is currently evaluating whether to enable blending of up to 2% hydrogen by volume into the NTS. This small percentage could act as an “off-taker of last resort” for hydrogen producers, providing a backup market when dedicated customers are not available.

Balancing Innovation with Risk

The consultation outlines both the potential benefits and challenges. While hydrogen blending could support the

growth of the hydrogen economy and help manage electricity system constraints, it also raises concerns for industrial users connected to the transmission system. Many of these users rely on stable, high-quality gas supplies, and even a 2% hydrogen blend could affect equipment performance, increase costs, or require infrastructure upgrades. Terra Firma Energy have been proactive in ensuring all our projects have been built utilising hydrogen ready generation sets that can accommodate a 20% blend of hydrogen into the network.

Studies cited in the consultation show that most transmission-connected users could technically handle a 2% blend with minimal changes, though feasibility studies and equipment modifications may still be necessary. At higher blends (5% or 20%), the risks and costs escalate significantly.

Cross-Border Considerations

The UK's ability to blend hydrogen is also influenced by developments in the EU. Under the EU Hydrogen and Decarbonised Gas Market Package, Member States can blend up to 2% hydrogen by volume, but are not required to do so. This creates potential interoperability issues with the UK's gas inter-connectors to Ireland, Belgium, and the Netherlands - especially if hydrogen blends exceed that threshold.

Helen Aletras

Terra Firma Energy Limited

+442038903116 ext.

helen.aletras@terrafirmaenergy.com

Visit us on social media:

[LinkedIn](#)

[Instagram](#)

[Facebook](#)

[YouTube](#)

[X](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/837105664>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.