

## Hydrogen and Gas Quality



Kiwa Gastec is a leading testing and certification body for hydrogen and other gas-fuelled appliances. We also specialise in fuel cell power, mCHP, portable device and fuel cell systems – whether fuelled by pure hydrogen or using other feedstocks.

Our services are most often engaged by utilities, government departments, appliance manufacturers and automotive companies, and include **technical advice, field trial management, feasibility studies, proof of concept, technical due diligence, risk analysis and mitigation, regulatory advice, techno-economic analysis, and data analysis**. Our [Hydrogen Insight newsletter](#) and our [Hydrogen movie](#) provide a good summary of our capabilities.

**Do you have a project you'd like to discuss? Please call our Consultancy team on 01242 677877**

We also run a training course '[Hydrogen and the Natural Gas Network](#)' for professionals working in the gas supply and appliance industry.

We are involved in several hydrogen-related projects in the UK and Europe:

- Collaboration with a major gas network operator on a feasibility study to change the gas supply for domestic and commercial users in a UK city from natural gas to hydrogen. See NGN's H21 Leeds City Gate report and [NGN's video](#) on the project. See the Climate Change Committee's report including the possible role of hydrogen in the UK's energy strategy, and this [Northern Powerhouse report](#).
- Investigation of the commercial appetite for manufacturing domestic hydrogen appliances
- Collaboration with another gas network provider on Europe's largest scale investigation of real performance of over one thousand installations with G20, G21 and G23 test gases.
- Working as part of a consortium to examine the potential use of hydrogen in the UK's energy space.
- An investigation into future hydrogen use on behalf of SSE. This 'HyHouse' project investigated the risks likely to arise from the accidental release of hydrogen or hydrogen/natural gas mixtures into a domestic property.
- Assessing the feasibility of creating a hydrogen generation and distribution system to service localised population and

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commerce for a major engineering contractor.

- Advising companies introducing high pressure hydrogen systems to ensure that their installations are safe and that they are fulfilling their duty of care to staff through compliance with [DSEAR](#)

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