



Glasgow Hydrogen Innovation Centre

The Glasgow Hydrogen Innovation Centre, situated on the University of Glasgow's main campus, provides facilities for academic research groups and commercial enterprises from across Scotland to take hydrogen technologies from experimental proof-of-concept through to small prototype stage. The Centre has been funded through a £180k grant from the Scottish Government, which the University has matched with a further £180k. TÜV SÜD are partners on this project, having obtained a £100k grant from Scottish Government (which they have also matched) to expand their existing hydrogen technology testing facilities in East Kilbride. Customers will be able to progress from the Glasgow Hydrogen Innovation Centre to TÜV SÜD's facility as they work up the technology readiness levels.

Key Capabilities / Centres

Description

Pilot Manufacturing, Testing & Validation

The Glasgow Hydrogen Innovation Centre is designed to be an accessible, flexible and low entry barrier facility that is well suited to early-stage commercialization activities in the hydrogen sector. Users of the space pay for access to the Centre on a per person, per month basis, in return for which they can use the following facilities for building prototype devices and testing these:

- Waterjet cutter, laser cutter, 3D printer for manufacturing prototype parts
- Potentiostats and power banks for testing electrolysis and fuel cell devices
- A hydrogen-safe test area in which devices can be run for extended periods of time for safe long-term assessment of performance
- Access to materials analysis apparatus across the University of Glasgow campus at a discounted rate

Value Chain Areas	Testing & validation	Pilot manufacturing	Digital tools & simulation	Open innovation spaces	Skills development
Production	✓	✓	○	○	○
Networks	X	X	X	X	X
Storage	✓	✓	○	○	○
Transport	X	X	X	X	X
Industry	X	X	X	X	X
Power	✓	✓	○	○	○
Heat	○	○	○	○	○

*Tick = yes, ○ = potential, X = no

Collaboration opportunities

The Glasgow Hydrogen Innovation Centre is an inherently collaborative environment. Companies and research groups using the space will be well-placed to collaborate with world-leading academic research groups in the hydrogen space within the Schools of Chemistry and Engineering, as well as the [Glasgow Centre for Sustainable Energy](#).

Opportunities also exist to connect into the wider hydrogen ecosystem in Scotland, particularly through the Centre's partnership with TÜV SÜD in East Kilbride.

In addition to their larger test and validation facilities, TÜV SÜD offer expertise in hydrogen flow meter testing, hazard and risk assessments, safety case management and training for the safe/proper handling of hydrogen.

Centre location



Hydrogen case studies

Our initial customers include:

- **Clyde Hydrogen Systems:** a spin-out from the University of Glasgow building and testing a prototype of a revolutionary new “decoupled electrolyser” for converting renewable power to green hydrogen. To read more, click here.
- **Novo Hydrogen:** a cutting-edge technology startup leveraging unique nanotechnology to significantly enhance proton exchange membrane water electrolyser performance, enabling more cost-effective green hydrogen production.

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