



## Impact Solutions

Impact Solutions, a UKAS-accredited organisation, provides independent testing services to various industries. They offer a unique set of services, including the development of new equipment, standards, and test methods, which also cater to the hydrogen sector. The organisation has pioneered several innovative technologies in areas such as industrial biotechnology, waste utilisation & recycling, advanced materials and functional polymers, and battery science.

### Key Capabilities / Centres

#### Descriptions

#### Testing Services

Impact Solutions has developed a wide range of standards in analytical, climatic, and materials testing. In the hydrogen sector, their mechanical testing services ensure the quality and longevity of equipment used in hydrogen production, storage, and distribution. Additionally, their composite materials testing provides solutions for emerging composites in the oil and gas industry, including tensile strength testing and thermal analysis.

#### Research and Development

Impact Solutions has pioneered various innovations within the energy, petrochemical, and materials industries. We have a strong track record in bringing to technologies to market, with over £34m in private investment secured over 10 years to deploy these solutions. We operate an open – innovation model where we support other organisations with their R&D activities while also seeking partners who compliment our capabilities and areas of expertise.

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

\*Tick = yes, ○ = potential, X = no

## Collaboration opportunities

Impact Solutions offers collaborative opportunities with both academia and industry:

- **Impact Solutions** provides access to their in-house and external consultants who have experience with legal support in issue related to testing and certification.
- **Access** to the UKAS Laboratory for testing services and allowing observation of the testing process.
- **Impact Solutions** provides facilities to house start-up as well as scale up, grant & funding support.

## Centre location



## Hydrogen case studies

- **Hydraulic pressure testing:** Impact Solutions has developed a means to test the mechanical integrity of hydrogen storage tanks up to 2800 bar using hydraulic pressure testing.
- **Hydrogen Generation:** Impact is also working on optimising electrolyse design to lower overall cost of production. We are interested in talking to end-users in this space.

### Key hydrogen contact:

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