Aberdeen Hydrogen Hub – a scalable green hydrogen production, storage, and distribution hub - operating from 2026







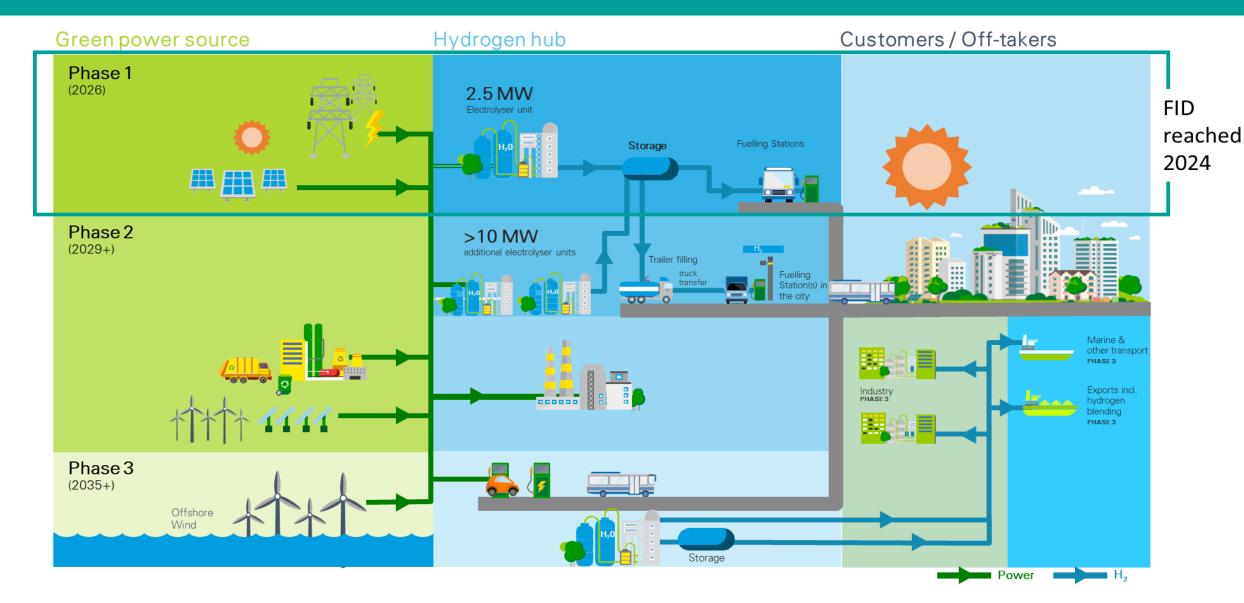


- Public-private partnership
- Innovative and fully integrated energy system project
- 2.5MWe of electrolytic hydrogen production

- Supports transport decarbonisation and stimulates hydrogen economy in Aberdeen
- Commitment to economic and community benefits, contributing to a long-term hydrogen economy

A phased green hydrogen hub development, scaling in line with market growth of renewables and hydrogen demand





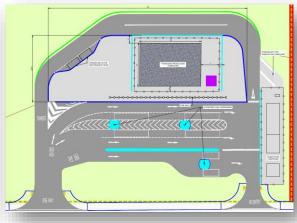
Contracts awarded, supporting local content with each based in Aberdeen or with significant Scottish operations



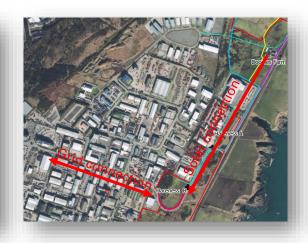
Electrolyser Package



Civils Package



Electrical & System Integration



Solar Package



Description:

Design, specification, procurement, installation and commissioning of full H2 electrolyser package on site

Public or Private Tendering:

Public



Design and all site works; excavation, concrete plinth, roads, fencing, drainage, utility connections etc. on site

Private ROBERTSON

Design and installation of the grid connection to site and the solar connection to site. Scope also includes integration of all equipment on and off site

Private



Turnkey solution for design, site prep, installation, commissioning (+2yr O&M) of solar facility, up to but not including grid connection

Transitioning skills & building the supply chain





Building the supply chain

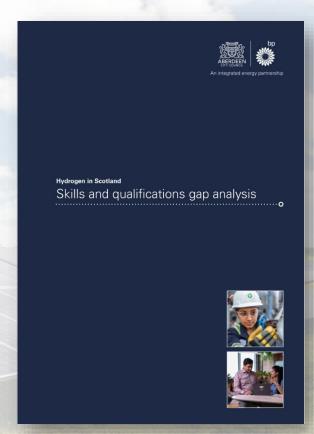


Building the supply chain

- Identifies the gaps in supply chain capability
- Identifies barriers facing suppliers in the hydrogen sector
- Suggests that a range of stakeholders can help address these gaps



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Skills and qualifications gap analysis

- Defines what skills are needed
- Assesses the current skills landscape
- Makes
 recommendations
 around suitable future



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Hydrasun





Our Hydrogen Journey >40 H₂ Projects



Established in 1976, Hydrasun has been delivering high pressure gas system solutions for safety critical applications

1976

Over the past decade, Hydrasun has expanded to offer hydrogen-specific integrated products and services, successfully completing 40 key projects



550 Employees Globally

£ 120M Turnover



Our project experience includes the design, supply, integration, installation, and commissioning of piping systems, panels, and Hydrogen Refuelling Stations (HRS) across the Transport, Industrial, and Power sectors. Key areas include:

- Hydrogen Refuelling Systems (HRS): design, installation, commissioning, operation and maintenance
- Fuel switching in industrial gas systems
- Hydrogen offtaker solutions















Hydrasun Scope of Work

Aberdeen Hydrogen Hub (Phase 1)





An integrated energy partnership

Project Description

Hydrasun will provide and integrate the hydrogen refuelling station, and associated infrastructure, to supply green hydrogen to local off-takers. The 2.5MW Hydrogen Refuelling Station (HRS), powered by a solar farm, producing 800-1000kg hydrogen per day to fuel 25 buses and a similar no. of fleet vehicles (HGV and cars).

Scope of Supply

Full turnkey design, supply and installation of the Hydrogen production package

- Major equipment items:
 - 2.5MW_e Electrolyser
 - 2 x Compressors
 - 2000kg Compressed Storage
 - 2 x Chillers
 - 2 x Dispensers
 - PLC and safety control systems
 - Local Equipment Room





Project Timeline

Aberdeen Hydrogen Hub (Phase 1)





Detailed Design and Safety Assessments

Aug 24 – Aug 25



Procurement Activities

Nov 24 – Sep 25



Siteworks

May 25 – Nov 25



H2 Tech Package Construction

Jan 26 – Apr 26



Pre-Commissioning, Commissioning and Handover

May 26 – Aug 26

Supply Chain Engagement November 2024 – September 2025



Aberdeen Hydrogen Hub (Phase 1)

Supply Chain Solutions

Major Equipment Items

- 2.5MW PEM Electrolyser
- Compressors
- Dispensers
- T20 Chillers
- Hydrogen Storage
- Local Equipment Room

Engineering Support

- Safety Study Chairs (HAZID/HAZOP)
- Consequence Modelling

Control System

- Process Control System (PCS and SCADA)
- Fire & Gas Detection System/ Fire Suppression System
- Safety Shutdown System (SIS)

Construction & Commissioning

- Cranage
- Analysis Services (Water, Hydrogen Purity)
- Scaffolding Contractors (Platforms)
- Waste Management Services (Skips)

Balance of Plant (BoP)

- Break Water Tank
- Water Pumps
- Water Pipeline Filters
- Hydrogen Filters
- Small Bore Tubing
- Actuated Ball Valves
- Pressure Regulation
- Bulk Materials (Cladding, Glands, Transits and cable containments etc.)
- Instrumentation (Analysers, Pressure Transmitters, Flow Meters)
- Metering
- Safety/ Pressure Relief Valves
- Control Valves
- Junction Boxes
- Safety Signage
- Supports/ Framing / Steelwork



Key Contacts

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Group Purchasing Manager Jamie.ross@hydrasun.com





Dr Stuart Mitchell
Hydrogen Director



Ed Harper Project Director



Stuart Gardiner
Operations Director



Stuart Duncanson
Head of BD



Hannah Beveridge Sales & Marketing Manager



Jemma Reynolds Sales & Marketing Analyst



FES – Scope Of Works

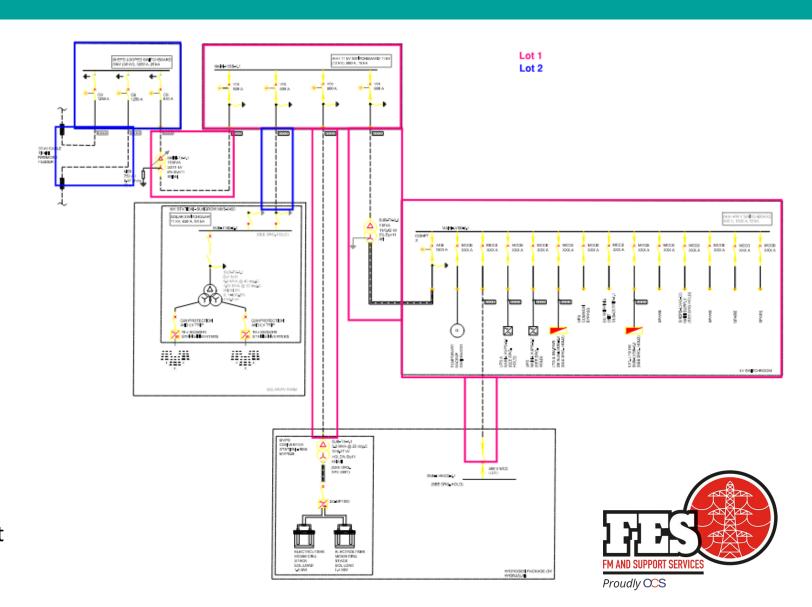


Lot 1

- Clients 33kV & 11kV HV Network and associated infrastructure
- ECS/PMS/SCADA
- Energy Management System (EMS)
- Communication & fibre network infrastructure
- CCTV
- Fire Alarms
- Lightning Protection & earthing
- External Lighting

Lot 2

- ICP SSE 33kV substation and incoming supply
- 11kV HV Private Wire to solar farm & associated civil excavation & reinstatement
- Fibre network infrastructure



FES – Supply Chain Packages



FES potential supply chain opportunities

Lot 1 – Balance of Plant	Lot 2 – ICP & Private Wire
11kV Switchgear	Cable Ducting
11kV transformer	Cable draw pits / chambers
Fire Alarm	Fibre cabling
Lighting; Internal & External	11kV cable
CCTV	33kV SSE spec cable



