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Planning

4855/AMRC/GM/2025 Kiln Modification for Hydrogen / Natural Gas Mix R2

UNIVERSITY OF SHEFFIELD

UK2: Preliminary market engagement notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2025/S 000-063672

Procurement identifier (OCID): ocds-h6vhtk-05ab86 ([view related notices](#))

Published 9 October 2025, 12:08pm

Scope

Reference

4855/AMRC/GM/2025

Description

4855/AMRC/GM/2025 Kiln Modification for Hydrogen / Natural Gas Mix

The University of Sheffield wishes to invite tenders for a Kiln Modification for Hydrogen / Natural Gas Mix on behalf of the Advanced Manufacturing Research Centre, Castings Group at Catcliffe, South Yorkshire.

Scope of Requirement

The University of Sheffield Advanced Manufacturing Research Centre (AMRC) wishes to convert its existing kiln from natural gas to a natural gas and hydrogen blend.

Sustainable Manufacturing is a core theme within the AMRC's Technology Strategy and

part of that theme is to decarbonise our own operations and to act as a demonstrator and experimental test bed for UK manufacturers looking to decarbonise their own operations.

AMRC Castings are investing in pyrolysis equipment to supply our mould firing kiln with decarbonised natural gas (i.e. hydrogen / natural gas blend). This is being tendered in parallel with this tender process.

The furnace is a 656kW kiln used for firing the ceramic shells used for investment casting. This will need modification/upgrading to be capable of operating with different blends of hydrogen and natural gas.

It is imperative that the conversion of our furnace includes interaction with the control system of the decarburisation equipment to comply with H&S requirements for emergency situations.

Tender Process and Documentation:

This procurement is an EU open procedure conducted in accordance with the Procurement ACT 2023.

The ITT can be downloaded by registering and expressing your interest on the University's e-tendering system <https://in-tendhost.co.uk/Sheffield>

If you have any questions or comments in relation to this tender they must be submitted via the In-tend System, this can be accessed at <https://in-tendhost.co.uk/Sheffield>

Closing date for the Preliminary Market Engagement is on October 15, 2025 at 12 noon (UK time).

Total value (estimated)

- £300,000 excluding VAT
- £360,000 including VAT

Contract dates (estimated)

- 15 December 2025 to 15 December 2028

- 3 years, 1 day

Main procurement category

Goods

CPV classifications

- 09123000 - Natural gas
- 24111600 - Hydrogen
- 24311800 - Carbon
- 39300000 - Miscellaneous equipment
- 42663000 - Surface tempering machines
- 45259300 - Heating-plant repair and maintenance work
- 51514000 - Installation services of miscellaneous general-purpose machinery
- 71321200 - Heating-system design services

Engagement

Engagement deadline

15 October 2025

Engagement process description

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Participation

Particular suitability

Small and medium-sized enterprises (SME)

Contracting authority

UNIVERSITY OF SHEFFIELD

- Companies House: RC000667

Firth Court, Western Bank

Sheffield

S10 2TN

United Kingdom

Contact name: Ghulam Mujtaba

Email: procurement@sheffield.ac.uk

Website: <https://www.sheffield.ac.uk/>

Region: UKE32 - Sheffield

Organisation type: Public authority - sub-central government