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Award

STEP P&T – High Heat Flux Testing and Verification Facility

UK INDUSTRIAL FUSION SOLUTIONS LTD

UK6: Contract award notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2025/S 000-066094

Procurement identifier (OCID): ocds-h6vhtk-055ed8 ([view related notices](#))

Published 16 October 2025, 7:05pm

Scope

Reference

PP-UKIFS-334c

Description

An integrated system that will provide cooling for the high heat flux testing for the STEP in-vessel components, as well as cooling the auxiliary systems required for operation, as part of the High Heat Flux Testing and Verification Facility. This system will include:

Temperature Control Unit (226 kW cooling capacity, 150 kW heating capacity and a maximum operating temperature of 350°C)

Chiller (350 kW cooling capacity)

Design of the Temperature Control Unit and Chiller System, along with all necessary components for operation.

Commissioning of the system.

Installation of the system.

This system is very similar to the operational HIVE test rig which has used this supplier for the last seven years and shares the same fundamental design concept, many similar components, the cooling system and operational principles. These specific nuances are currently only understood by ICS Cool Energy.

This project is an extension of the organisation's Induction-heating based HHF testing programme and there is a stakeholder requirement to ensure equipment is directly comparable, and compatible to the HIVE facility, including physical interfaces, control, and data acquisition (see approved TD-0012050-A: SHR-010, SHR-011, SHR-013). As a result another supplier would have to retrofit the HIVE test to match the proposed HHFTVF facility increasing the cost beyond what we have been quoted.

The absence of this system poses a significant technical risk to the project, as it will result in certain key stakeholder requirements falling out of scope and lead to a diminished operational capability, such as the inability to accurately replicate the first wall environment as well as future use cases. (see approved TD-0012050-A: SHR-008, SHR-009, SHR-016)

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<https://ukifs.delta-esourcing.com/delta/viewNotice.html?noticeId=983518141>

Contract 1. PP-UKIFS-334c

Supplier

- ICS COOL ENERGY LIMITED

Contract value

- £293,959 excluding VAT
- £352,750.80 including VAT

Above the relevant threshold

Award decision date

16 October 2025

Standstill period

- End: 27 October 2025
- 8 working days

Earliest date the contract will be signed

29 October 2025

Contract dates (estimated)

- 30 October 2025 to 31 March 2026
- 5 months, 2 days

Main procurement category

Services

CPV classifications

- 42510000 - Heat-exchange units, air-conditioning and refrigerating equipment, and filtering machinery
- 45331230 - Installation work of cooling equipment
- 50721000 - Commissioning of heating installations
- 51100000 - Installation services of electrical and mechanical equipment
- 71321000 - Engineering design services for mechanical and electrical installations for buildings
- 73100000 - Research and experimental development services
- 73430000 - Test and evaluation

Contract locations

- UK - United Kingdom

Procedure

Procedure type

Direct award

Supplier

ICS COOL ENERGY LIMITED

- Public Procurement Organisation Number: PXRH-1519-HLXY

Ics House Stephenson Road, Calmore Industrial Estate, Totton

Southampton

SO40 3SA

United Kingdom

Contact name: Jon Reeve

Email: jon.reeve@icscoolenergy.com

Region: UKJ36 - Central Hampshire

Small or medium-sized enterprise (SME): No

Voluntary, community or social enterprise (VCSE): No

Supported employment provider: No

Public service mutual: No

Contract 1. PP-UKIFS-334c

Contracting authority

UK INDUSTRIAL FUSION SOLUTIONS LTD

- Public Procurement Organisation Number: PCRM-7973-DCBL

UK Industrial Fusion Solutions Ltd, Culham Campus, Abingdon, Oxfordshire

Abingdon

OX14 3DB

United Kingdom

Contact name: Operational Procurement

Email: operationalprocurement.step@ukifs.uk

Region: UKJ14 - Oxfordshire

Organisation type: Public authority - sub-central government