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Planning

## **Contractors for the provision of hydrogen end user skills and standards for heat supporting research and evidence**

Department for Business Energy and Industrial Strategy (BEIS)

F01: Prior information notice

Prior information only

Notice identifier: 2021/S 000-013807

Procurement identifier (OCID): ocds-h6vhtk-02bd62

Published 17 June 2021, 6:15pm

### **Section I: Contracting authority**

#### **I.1) Name and addresses**

Department for Business Energy and Industrial Strategy (BEIS)

1 Victoria Street

London

SW1H 0ET

#### **Email**

[nzip.hydrogen@beis.gov.uk](mailto:nzip.hydrogen@beis.gov.uk)

#### **Telephone**

+44 2072150720

**Country**

United Kingdom

**NUTS code**

UK - United Kingdom

**Internet address(es)**

Main address

<https://www.gov.uk/government/organisations/department-for-business-energy-and-industrial-strategy>

Buyer's address

<https://www.delta-esourcing.com>

**I.3) Communication**

Additional information can be obtained from the above-mentioned address

**I.4) Type of the contracting authority**

Ministry or any other national or federal authority

**I.5) Main activity**

General public services

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## **Section II: Object**

### **II.1) Scope of the procurement**

#### **II.1.1) Title**

Contractors for the provision of hydrogen end user skills and standards for heat supporting research and evidence

Reference number

5147/06/2021T

#### **II.1.2) Main CPV code**

- 73000000 - Research and development services and related consultancy services

#### **II.1.3) Type of contract**

Services

#### **II.1.4) Short description**

BEIS intends to appoint contractors to undertake desk based research and field work on hydrogen to support the development of standards required for the re-purposing of existing gas infrastructure downstream of the emergency control valve to be used with hydrogen.

This programme will serve to support and inform future policy appraisal in Government and to inform the development of policies and measures to meet UK carbon budgets.

The work covers a range of priority research areas to support the creation of standards which will support hydrogen trials in the UK.

Please note: Mott McDonald have been appointed by BEIS as technical support for the Hydrogen Heating Program. They will not be involved in the creation of the specification or ITT for this work, however they will be advising BEIS on the outputs from this contract. All necessary steps will be taken to mitigate any actual or perceived conflict of interest potentially arising as a result.

#### **II.1.5) Estimated total value**

Value excluding VAT: £1,125,000

## **II.1.6) Information about lots**

This contract is divided into lots: Yes

Maximum number of lots that may be awarded to one tenderer: 7

The contracting authority reserves the right to award contracts combining the following lots or groups of lots:

Suppliers can apply for any or all lots.

## **II.2) Description**

### **II.2.1) Title**

Purging Domestic & Non-Domestic

Lot No

1

### **II.2.2) Additional CPV code(s)**

- 24111600 - Hydrogen
- 39341000 - Gas pressure equipment
- 73000000 - Research and development services and related consultancy services
- 76000000 - Services related to the oil and gas industry

### **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

Main site or place of performance

UNITED KINGDOM

### **II.2.4) Description of the procurement**

This will include the development of an outline methodology and the trialling of this methodology in a test arrangement or test site to include monitoring of gas concentrations, equipment needed, safety measures, time taken and potential for direct or indirect purging.

## **II.2.14) Additional information**

Suppliers can apply for any or all lots.

## **II.2) Description**

### **II.2.1) Title**

Material & Component Suitability - Domestic and Non-domestic

Lot No

2

### **II.2.2) Additional CPV code(s)**

- 24111600 - Hydrogen
- 73000000 - Research and development services and related consultancy services
- 76000000 - Services related to the oil and gas industry
- 39341000 - Gas pressure equipment
- 39721410 - Gas appliances

### **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

Main site or place of performance

UNITED KINGDOM

### **II.2.4) Description of the procurement**

This would address evidence gaps in terms of basic material and component compatibility.

The initial step would be to characterise all of the materials that hydrogen could encounter in end user systems, considering the materials compatibility, longevity and modes of failure for components.

## **II.2.14) Additional information**

Suppliers can apply for any or all lots.

## **II.2) Description**

### **II.2.1) Title**

Non-Domestic Piped Systems - Tightness and Material Compatibility

Lot No

3

### **II.2.2) Additional CPV code(s)**

- 24111600 - Hydrogen
- 39341000 - Gas pressure equipment
- 73000000 - Research and development services and related consultancy services
- 76000000 - Services related to the oil and gas industry

### **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

Main site or place of performance

UNITED KINGDOM

### **II.2.4) Description of the procurement**

This would expand evidence gained from Hy4Heat in this area for end user systems, across the full possible range of piped systems converted, either demonstrating tightness or highlighting existing systems for which there will be risks.

## **II.2.14) Additional information**

Suppliers can apply for any or all lots.

## **II.2) Description**

### **II.2.1) Title**

Consolidation of Domestic Ventilation and Non- Domestic Impacts

Lot No

4

### **II.2.2) Additional CPV code(s)**

- 24111600 - Hydrogen
- 73000000 - Research and development services and related consultancy services
- 76000000 - Services related to the oil and gas industry

### **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

Main site or place of performance

UNITED KINGDOM

### **II.2.4) Description of the procurement**

Research on the impact and practicability of additional ventilation requirements for hydrogen in the building stock. There is also a requirement to take the findings of domestic research and as far as possible consider the implications for non-domestic buildings.

## **II.2.14) Additional information**

Suppliers may apply for any or all lots.

## **II.2) Description**

### **II.2.1) Title**

Pipe Sizing and pressure drop criteria

Lot No

5

### **II.2.2) Additional CPV code(s)**

- 24111600 - Hydrogen
- 39341000 - Gas pressure equipment
- 73000000 - Research and development services and related consultancy services
- 76000000 - Services related to the oil and gas industry

### **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

Main site or place of performance

UNITED KINGDOM

### **II.2.4) Description of the procurement**

To help understand whether pipes would have sufficient capacity with hydrogen, this would provide: i) a methodology by which existing pipes can be assessed and new pipes can be sized for the full range of domestic and non-domestic installation types; ii) a criteria to specify the extent by which existing natural gas operating pressures could be varied for hydrogen.

### **II.2.14) Additional information**

Suppliers may apply for any or all lots.

## **II.2) Description**

### **II.2.1) Title**



Meter Location and Ventilation Study

Lot No

6

## **II.2.2) Additional CPV code(s)**

- 24111600 - Hydrogen
- 73000000 - Research and development services and related consultancy services
- 76000000 - Services related to the oil and gas industry
- 38432100 - Gas-analysis apparatus

## **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

Main site or place of performance

UNITED KINGDOM

## **II.2.4) Description of the procurement**

This research would consider representative meter housing and location arrangements, with consideration of necessary clearances and ventilation requirements for DSEAR and the potential for humidity/water build up.

## **II.2.14) Additional information**

Suppliers may apply for any or all lots.

## **II.2) Description**

### **II.2.1) Title**

Excess flow valve (EFV)

Lot No

7

## **II.2.2) Additional CPV code(s)**

- 24111600 - Hydrogen
- 73000000 - Research and development services and related consultancy services
- 76000000 - Services related to the oil and gas industry
- 39341000 - Gas pressure equipment
- 39721410 - Gas appliances

## **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

Main site or place of performance

UNITED KINGDOM

## **II.2.4) Description of the procurement**

This research would consider installation and calibration work for the EFV (Excess flow valve) including what methodology and basis which will be used to set the shutoff point for the valves during installation.

## **II.2.14) Additional information**

Suppliers may apply for any or all lots.

## **II.3) Estimated date of publication of contract notice**

2 August 2021

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## **Section IV. Procedure**

### **IV.1) Description**

#### **IV.1.8) Information about the Government Procurement Agreement (GPA)**

The procurement is covered by the Government Procurement Agreement: Yes

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## **Section VI. Complementary information**

### **VI.3) Additional information**

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