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Planning

PNDC Thermal Demonstration and Innovation Facility

University of Strathclyde

F01: Prior information notice

Prior information only

Notice identifier: 2022/S 000-025817

Procurement identifier (OCID): ocids-h6vhtk-036874

Published 14 September 2022, 3:36pm

Section I: Contracting authority

I.1) Name and addresses

University of Strathclyde

40 George Street, Procurement Department

Glasgow

G1 1QE

Contact

Magda Bamford

Email

magdalena.bamford@strath.ac.uk

Telephone

+44 1415484451

Country

United Kingdom

NUTS code

UKM82 - Glasgow City

Internet address(es)

Main address

<http://www.strath.ac.uk/>

Buyer's address

https://www.publiccontractsscotland.gov.uk/search/Search_AuthProfile.aspx?ID=AA00113

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Education

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

PNDC Thermal Demonstration and Innovation Facility

Reference number

UOS-25252-2022

II.1.2) Main CPV code

- 09300000 - Electricity, heating, solar and nuclear energy

II.1.3) Type of contract

Supplies

II.1.4) Short description

PNDC is in the process of expanding its experimental validation, test and demonstration activities in the area of whole energy systems. To support this expansion, PNDC intends to procure a test and demonstration infrastructure for low carbon thermal technologies and systems.

II.1.5) Estimated total value

Value excluding VAT: £1,600,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 71321200 - Heating-system design services
- 71314000 - Energy and related services
- 65400000 - Other sources of energy supplies and distribution
- 31200000 - Electricity distribution and control apparatus
- 42900000 - Miscellaneous general and special-purpose machinery

II.2.3) Place of performance

NUTS codes

- UKM82 - Glasgow City

II.2.4) Description of the procurement

PNDC is in the process of expanding its experimental validation, test and demonstration activities in the area of whole energy systems. To support this expansion, PNDC intends to procure a test and demonstration infrastructure for low carbon thermal technologies and systems.

The concept design for the facility includes the provision of a highly flexible, controllable heat network which is capable of testing a variety of low carbon thermal technologies (heat pumps, fuel cells, CHP units, heat exchangers, heat interface units, thermal stores etc). The system features:

- Multiple separate heat networks based on a range of outputs, (e.g. 0-50kW, 50-200kW and 200-500kW), which can be combined into a single network, allowing multiple low carbon technologies of different capacities to be tested simultaneously, mimicking real life heat network scenarios. This should be scalable to allow for future expansion.
- Flexible network configurations, allowing multiple low carbon sources to be connected, in series or parallel and at different locations in the network.
- A separate cooling network.
- Six test cells, with flexible connections to allow various technologies to be connected to the heat network, in series and in parallel and at different locations in the network. This includes a dedicated test cell for hydrogen technologies.
- A primary heat source serving all heat networks (~750kW rated capacity) and thermal storage.
- A thermal load emulation capability based on the use of Plate Heat Exchangers, so that real-world load profiles can be replicated.
- Fully automated SCADA system across all networks and linked to a central control room, inclusive of all heat/flow meters, temperature/pressure sensors/alarms and control interfaces.

II.3) Estimated date of publication of contract notice

17 October 2022

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

Section VI. Complementary information

VI.3) Additional information

Interested parties should note their interest via the portal.

All notes of interest must be submitted by 1200hrs GMT on 27th September 2022 to participate in a potential pre-tender engagement.

NOTE: To register your interest in this notice and obtain any additional information please visit the Public Contracts Scotland Web Site at

https://www.publiccontractsscotland.gov.uk/Search/Search_Switch.aspx?ID=706866.

(SC Ref:706866)