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Planning

Green Hydrogen Test & Demonstration Facilities - FEED

Energy Transition Zone Limited

F01: Prior information notice

Prior information only

Notice identifier: 2024/S 000-039347

Procurement identifier (OCID): ocds-h6vhtk-04c2cd

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Section I: Contracting authority

I.1) Name and addresses

Energy Transition Zone Limited

Blenheim Gate, Blenheim Place

Aberdeen

AB25 2DZ

Email

david.beattie@etzltd.com

Telephone

+44 7990540036

Country

United Kingdom

NUTS code

UK - United Kingdom

Internet address(es)

Main address

<http://etzltd.com>

Buyer's address

https://www.publiccontractsscotland.gov.uk/search/Search_AuthProfile.aspx?ID=AA30521

I.2) Information about joint procurement

The contract is awarded by a central purchasing body

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Other type

Private not for profit company

I.5) Main activity

Other activity

Energy Transition

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Green Hydrogen Test & Demonstration Facilities - FEED

II.1.2) Main CPV code

- 71320000 - Engineering design services

II.1.3) Type of contract

Services

II.1.4) Short description

ETZ Ltd require a contractor to conduct Front End Engineering Design for Green Hydrogen Test and Demonstration Facilities to be located in Aberdeen, Scotland.

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 71320000 - Engineering design services

II.2.3) Place of performance

NUTS codes

- UKM50 - Aberdeen City and Aberdeenshire

Main site or place of performance

Aberdeen

II.2.4) Description of the procurement

ETZ Ltd require a contractor to conduct Front End Engineering Design for Green Hydrogen Test and Demonstration Facilities which will be built within the Energy Transition Zone, Aberdeen.

The Energy Transition Zone is a 250-hectare area of greenfield and brownfield sites for new business investment opportunities in energy transition-related projects. The Energy Transition Zone will enable land for new investment into energy-related activities. It will become a hub of innovation to support the delivery of floating offshore wind and green hydrogen.

The Energy Transition Zone is being master planned using a campus model approach to encourage clusters of specialised activity and like-minded companies to come together. The campuses include a Marine Gateway, an Offshore Wind Campus, an Innovation Campus, a Skills Campus and a Hydrogen Campus.

The Hydrogen Campus is a 15-hectare area of both brown field and green field land which aims to attract companies specialising in hydrogen technologies to develop in the area, further strengthening Aberdeen's reputation as a "centre of excellence for hydrogen".

The flagship project within the Hydrogen Campus will be Green Hydrogen Test & Demonstration Facilities (GHTDF) which aims to provide hydrogen specific testing facilities for industry, built in a phased approach, with a focus on the emerging hydrogen production market. The GHTDF will be supplied with locally produced green hydrogen, which will be available to customers "on demand".

ETZ Ltd has been developing this project concept since 2021 and has engaged both technical and safety consultants to help define the proposed use cases as well as undertake Pre-FEED. The successful FEED contractor will be required to engage with ETZ Ltd.'s technical and safety consultants as well as our operating partner and the FEED scope of work, which will be issued in January 25, will reflect this.

ETZ Ltd has also conducted extensive market research to better understand the hydrogen market and industry's testing requirements. As such, the concept for the GHTDF is one where the facilities grow organically over time, reacting to new technology requirements as they emerge. This has resulted in a three phased development approach to maintain flexibility and the ability to react to market demand. The phases of the GHTDF are likely to be as follows:

Phase 1 - Base testing facilities (outdoor testing only)

Phase 2 – Expanded testing facilities (outdoor and indoor testing)

Phase 3 – Future expansion for specialised testing facilities (more bespoke testing requirements based on specific client need)

It is anticipated that Phase 1 would allow testing in the following areas:

Electrolyser performance testing

Testing of demonstrators & system integration

Valve testing (control, shutdown, relief etc)

Flow meter calibration and testing

Fuel cell and hydrogen quality testing

This FEED study will focus on Phase 1 only with design consideration given to future proofing the site and Phase 2 & Phase 3 expansion requirements. It is anticipated that Phase 1 of the facility will be operational in late 2026 and that FEED will be concluded mid 2025.

ETZ Ltd has commenced this procurement process in good faith and with the intention of publishing an Invitation to Tender (ITT) in January 2025. Tender responses will then be evaluated by ETZ Ltd in accordance with the ITT.

II.3) Estimated date of publication of contract notice

13 January 2025

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

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=783760.

(SC Ref:783760)