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Tender

UKRI-3443 Battery Energy Storage System for the ASPIRE-II Project

UK Research & Innovation

F02: Contract notice
Notice identifier: 2023/S 000-037737
Procurement identifier (OCID): ocds-h6vhtk-042951
Published 21 December 2023, 4:06pm

Section I: Contracting authority

I.1) Name and addresses

UK Research & Innovation

UK Research & Innovation, Polaris House

Swindon

SN2 1FL

Contact

Solomon Nwosu

Email

Solomon.Nwosu@ukri.org

Telephone

+44 7394204018

Country

United Kingdom

Region code

UKJ14 - Oxfordshire

Internet address(es)

Main address

www.ukri.org

I.2) Information about joint procurement

The contract is awarded by a central purchasing body

I.3) Communication

The procurement documents are available for unrestricted and full direct access, free of charge, at

https://ukri.delta-esourcing.com

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted to the above-mentioned address

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Other activity

Research

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

UKRI-3443 Battery Energy Storage System for the ASPIRE-II Project

Reference number

UKRI-3443

II.1.2) Main CPV code

- 31440000 - Batteries

II.1.3) Type of contract

Supplies

II.1.4) Short description

The ASPIRE II project aims to create an Ammonia Synthesis Plant powered solely by renewable energy. It aims to prove the plant's reliability in off-grid settings with varying climates. Featuring four main subsystems and the capability to adjust ammonia production based on available renewable power, the Battery Energy Storage System (BESS) seeks to manage fluctuations between plant consumption and variable renewable energy sources.

II.1.5) Estimated total value

Value excluding VAT: £250,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKJ14 - Oxfordshire

Main site or place of performance

Oxfordshire

II.2.4) Description of the procurement

The Ammonia Synthesis Plant using Intermittent Renewable Energy 2 (ASPIRE II) project is a demonstration plant which will be built to generate green ammonia using only renewable energy sources. The goal of the project is to prove the system can operate reliably in off grid locations with varying climates. The plant includes four main subsystems, a nitrogen generator, a hydrogen generator, a flexible ammonia synthesis loop and a thermal store. A key requirement of the plant is that the ammonia production rate can be flexed in proportion to the available renewable power. The response rate of the largest load, the electrolyser, is of the order 2 seconds and consumes some 80% of the energy required for the plant. This response rate is key to facilitating tracking of the renewable power however we expect some imbalance between plant power consumption and available renewable power especially when the available renewable power fluctuates rapidly. We envisage the BESS will bridge these imbalances and that the charge status of the BESS will be used as a signal to control the plant generation rate. The demonstrator will be built at the Rutherford Appleton Laboratory in Oxfordshire.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.6) Estimated value

Value excluding VAT: £250,000

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

4

This contract is subject to renewal

No

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Open procedure

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

The procurement is covered by the Government Procurement Agreement: Yes

IV.2) Administrative information

IV.2.2) Time limit for receipt of tenders or requests to participate

Date

25 January 2024

Local time

2:00pm

IV.2.4) Languages in which tenders or requests to participate may be submitted

English

IV.2.7) Conditions for opening of tenders

Date

25 January 2024

Local time

3:00pm

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.3) Additional information

The contracting authority considers that this contract may be suitable for economic operators that are small or medium enterprises (SMEs). However, any selection of tenderers will be based solely on the criteria set out for the procurement.

For more information about this opportunity, please visit the Delta eSourcing portal at:

https://ukri.delta-esourcing.com/tenders/UK-UK-Swindon:-Batteries./H857SYYG9Z

To respond to this opportunity, please click here:

https://ukri.delta-esourcing.com/respond/H857SYYG9Z

GO Reference: GO-20231221-PRO-24835747

VI.4) Procedures for review

VI.4.1) Review body

UK Research and Innovation

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