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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](mailto:Solomon.Nwosu@ukri.org)

#### **Telephone**

+44 7394204018

#### **Country**

United Kingdom

**Region code**

UKJ14 - Oxfordshire

**Internet address(es)**

Main address

[www.ukri.org](http://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

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## **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

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## **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

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## **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

UK Research and Innovation Polaris House, North Star Avenue

Swindon

SN2 1FL

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