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Planning

International Energy Agency Technology Collaboration Programme (IEA TCP) Alternate Delegates (AD) Procurement 2023 - 2025

Department for Business, Energy & Industrial Strategy

F01: Prior information notice

Prior information only

Notice identifier: 2023/S 000-004385

Procurement identifier (OCID): ocds-h6vhtk-03a53b

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Section I: Contracting authority

I.1) Name and addresses

Department for Business, Energy & Industrial Strategy

London

Email

George.bennett2@beis.gov.uk

Country

United Kingdom

Region code

UK - United Kingdom

Internet address(es)

Main address

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

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

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

International Energy Agency Technology Collaboration Programme (IEA TCP) Alternate Delegates (AD) Procurement 2023 - 2025

II.1.2) Main CPV code

- 73110000 - Research services

II.1.3) Type of contract

Services

II.1.4) Short description

The services being procured consist of 3 lots relating to 3 separate IEA Technology Collaboration Partnerships:

- Energy Conservation through Energy Storage (ECES)
- Solar Heating and Cooling (SHC)
- BioEnergy (Bio)

The TCPs are independent, international groups of experts set up by the IEA that enable governments and industries around the world to lead programmes and projects on a wide range of energy technologies and related issues.

For all three IEA TCPs we are looking to procure services to cover the role 'Alternate Delegate' for that TCP which involves representing BEIS at the TCP meetings, providing technical expertise in the area in written and verbal form from 2023 until March 2025

The SHC and ECES TCPs have additional responsibilities and budget relating to specific projects within their topic areas.

II.1.5) Estimated total value

Value excluding VAT: £112,000

II.1.6) Information about lots

This contract is divided into lots: Yes

Maximum number of lots that may be awarded to one tenderer: 3

II.2) Description

II.2.1) Title

Energy Conservation through Energy Storage (ECES)

Lot No

1

II.2.2) Additional CPV code(s)

- 73110000 - Research services

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

II.2.4) Description of the procurement

The role of Alternate Delegate is to represent the UK on the executive committee of the respective IEA TCP, both in person at 6 monthly international ExCo meetings but also in ongoing TCP activities including domain specific tasks.

More detailed information on the activities of the ECES TCP covered in this procurement can be found below:

- <https://iea-es.org/>

The AD role consists of the following tasks and roles

- Leading delivery of the research element of the UK's participation in the TCP.
- Attending ExCo Meetings (twice per year).
- Attending TCP Research Workshops, National Team Meetings, and Annex working groups. Annex working groups are aimed at delivering a specific task or output, which will advance the knowledge base of the TCP.
- Managing the National Team, which represents a group of interested parties of typically 5 to 20 (depending on TCP) experts from NGOs, academia, and industry. They meet 1-4 times a year, and participate in relevant annexes.
- ExCo activities: preparing the annual report (gathering relevant national information on innovations in the TCP area, deployment, research progress, total UK funding etc), discussing the state of research and knowledge of the technology at the meetings, learning about gaps and state of technology in different countries
- Reviewing proposals for new TCP research/annexes.
- Contributing to the organisation and management of the TCP with the secretariat.
- Coordinating UK communications for the TCP
- Where necessary/useful, liaising with ADs from other TCPs.
- Producing an annual report for BEIS on TCP activity during the year, for the attention of the Engineering and Research Programme board (new requirement).
- Dissemination: promoting nationally and internationally at conferences and global events the UK and IEA TCP activities.

The Energy Storage AD role includes scope and budget to take part in a ECES TCP project on 'System flexibility from Medium duration Energy Storage' with the following scope and objectives:

Scope

The main goal of the IEA Energy Storage Task 42 “System flexibility from Medium-Duration Energy Storage” is to support the introduction of medium-duration energy storage systems into energy systems worldwide, as a significant contribution towards achieving Net-Zero both affordably and quickly. Under this task, “Medium-Duration” is defined as energy storage with a discharge duration from 4 hours to 200 hours.

The Task’s goal and objectives will be delivered by drawing on the existing resources and activities of IEA Energy Storage TCP partners. The task will not involve new primary research but will draw on and co-ordinate across existing research activities. (However, some further deliverables may be achieved if partners contribute additional resource, enabling new activities to be established specifically for the Task.)

Objectives

- The objectives of the task, that are considered necessary to achieving the main goal and can be achieved with existing resources and activities of TCP partners, are outlined below.
- Forming a community around MDES and activating this community so that best practice is shared throughout and knowledge is spread.
- Achieving clarity on definitions and nomenclature.
- Reviewing existing LS-MDES plant and those that are in development already.
- Exploring what technologies are suited to LS-MDES duty and characterising these as best possible using available information and modelling based on physics and/or experience.
- Understanding the relative importance of MDES as a flexibility provision for future energy systems through modelling.
- Understanding and tracking the progress of energy service flexibility provisions that may cater for significant components of the overall medium-duration flexibility requirements.
- Assessing what resources (mountains, deep water, salt deposits etc.) are available in each of the major independent territories where MDES is needed.

II.2.14) Additional information

Further objectives of the ECES TCP project on ‘System flexibility from Medium duration Energy Storage’

- Understanding where GIES systems (particularly those based on wind power and solar

power) can contribute into MDES systems.

- Developing an understanding of the policy and financial frameworks that may be needed to elicit the development and build-out of MDES systems in the future.

II.2) Description

II.2.1) Title

Solar Heating and Cooling (SHC)

Lot No

2

II.2.2) Additional CPV code(s)

- 73110000 - Research services

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

II.2.4) Description of the procurement

The role of Alternate Delegate is to represent the UK on the executive committee of the respective IEA TCP, both in person at 6 monthly international ExCo meetings but also in ongoing TCP activities including domain specific tasks.

More detailed information on the activities of the TCP covered in this procurement can be found below:

- <https://www.iea-shc.org/>

The AD role consists of the following tasks and roles

- Leading delivery of the research element of the UK's participation in the TCP.
- Attending ExCo Meetings (twice per year).
- Attending TCP Research Workshops, National Team Meetings, and Annex working groups. Annex working groups are aimed at delivering a specific task or output, which will advance the knowledge base of the TCP.

- Managing the National Team, which represents a group of interested parties of typically 5 to 20 (depending on TCP) experts from NGOs, academia, and industry. They meet 1-4 times a year, and participate in relevant annexes.
- ExCo activities: preparing the annual report (gathering relevant national information on innovations in the TCP area, deployment, research progress, total UK funding etc), discussing the state of research and knowledge of the technology at the meetings, learning about gaps and state of technology in different countries.
- Reviewing proposals for new TCP research/annexes.
- Contributing to the organisation and management of the TCP with the secretariat.
- Coordinating UK communications for the TCP.
- Where necessary/useful, liaising with ADs from other TCPs.
- Producing an annual report for BEIS on TCP activity during the year, for the attention of the Engineering and Research Programme board (new requirement).
- Dissemination: promoting nationally and internationally at conferences and global events the UK and IEA TCP activities.

The SHC AD role includes scope and budget to take part in a SHC TCP project on 'Smart Hot Water' with the following scope and objectives:

Scope

The project (IEA SHC Task 69 Sub Task C) will research the use of residential/domestic/consumer smart power diverters/controllers for domestic hot water heating (smart water heaters). This category of products is often co-located with rooftop solar photovoltaic arrays; they take power from a solar photovoltaic array and use it for heating domestic hot water (via an electrical heating system, which can be direct immersion heating, HPs or via an intermediary battery) thereby avoiding purchase of energy from the grid and increasing the bill savings of homes with PV arrays. As such, smart water heaters represent a potentially highly cost-effective bill reduction technology. As a relatively new technology, the evidence base for the operational characteristics, technical potential and real world bill savings is evolving and there is a need for a firmer base on which to support policy making. The role of smart water heating in Demand Side Response systems is also relatively unknown.

Objectives

- To scope the energy bill saving potential of smart water heaters compared to other

solutions such as battery storage, assess the ability to integrate with other hot water and space heating technologies to provide an optimal whole home solution, and consider potential network benefits.

- To contribute to improving the SAP methodology (the calculation methodology behind domestic Energy Performance Certificates) by better understanding the diverter market and the various types of technology in the category, their operating characteristics and energy saving potential.
- To identify the innovation opportunities (technical and market) which can increase the performance, reduce the cost, and improve the reliability of smart water heaters using smart power diverters.

II.2.14) Additional information

Further objectives of IEA SHC Task 69 Sub Task C

- Although the focus of this project is on domestic smart solar water heaters, the information from the project will also provide intelligence for larger scale systems (industrial & district smart water heaters) and other types of domestic power diverters (eg car chargers, space heaters and cookers).

II.2) Description

II.2.1) Title

BioEnergy (Bio)

Lot No

3

II.2.2) Additional CPV code(s)

- 73110000 - Research services

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

II.2.4) Description of the procurement

The role of Alternate Delegate is to represent the UK on the executive committee of the respective IEA TCP, both in person at 6 monthly international ExCo meetings but also in

ongoing TCP activities including domain specific tasks.

More detailed information on the activities of the TCP covered in this procurement can be found below:

- <https://www.ieabioenergy.com/>

The AD role consists of the following tasks and roles

- Leading delivery of the research element of the UK's participation in the TCP.
- Attending ExCo Meetings (twice per year).
- Attending TCP Research Workshops, National Team Meetings, and Annex working groups. Annex working groups are aimed at delivering a specific task or output, which will advance the knowledge base of the TCP.
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- Reviewing proposals for new TCP research/annexes.
- Contributing to the organisation and management of the TCP with the secretariat.
- Coordinating UK communications for the TCP.
- Where necessary/useful, liaising with ADs from other TCPs.
- Producing an annual report for BEIS on TCP activity during the year, for the attention of the Engineering and Research Programme board (new requirement).
- Dissemination: promoting nationally and internationally at conferences and global events the UK and IEA TCP activities.

II.3) Estimated date of publication of contract notice

15 March 2023

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

A supplier event will be held on 23 February 2023 from 1-2pm virtually through a Microsoft Teams Link.

If you wish to take part in this supplier day please complete this form <https://forms.office.com/e/Mug9qKfFT3> with your details and you will be subsequently invited to an MS Teams event for the supplier event itself in advance of the 23rd of February. In the event of issues with the online form for or further questions please contact George Bennett at George.bennett2@beis.gov.uk.

Slides and Q&A will be circulated after the event.