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Tender

Alternate Delegates for ten International Energy Agency Technology Collaboration Programmes (2025)

Department for Energy Security & Net Zero

UK4: Tender notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2025/S 000-012379

Procurement identifier (OCID): ocds-h6vhtk-04fba4 ([view related notices](#))

Published 1 April 2025, 5:25pm

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Scope

Reference

prj_5236

Description

DESNZ is looking for experts in their field with a strong network of contacts across their industry to act as alternate delegates for ten International Energy Agency (IEA) Technology Collaboration Programmes (TCPs).

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.

The UK is currently participating in 26 TCPs and DESNZ would like to commission Alternate Delegates for 10 of these TCPs to represent the UK industry alongside the

primary (DESNZ) delegate:

- Hydrogen
- Solar Heating and Cooling
- District Heating and Cooling
- User-Centred Energy Systems
- Bioenergy
- Energy in Buildings and Communities
- International Smart Grid Action Network
- Photovoltaics Power Systems
- Industrial and Energy Related Technologies and Systems
- Geothermal

Total value (estimated)

- £432,000 excluding VAT
- £518,400 including VAT

Above the relevant threshold

Contract dates (estimated)

- 26 May 2025 to 30 March 2029
- Possible extension to 29 March 2030
- 4 years, 10 months, 4 days

Description of possible extension:

Extension for upto 12 months available on case by case basis if discussed and agreed with TCP Co-ordinator

Main procurement category

Services

CPV classifications

- 73110000 - Research services

Contract locations

- UK - United Kingdom
-

Lot 1. Hydrogen

Description

The Hydrogen TCP coordinates and facilitates R&D across the hydrogen value chain (production, storage, distribution, power, heating, industry) to:

accelerate hydrogen implementation

optimise environmental protection

improve global energy systems and grid management

Lot value (estimated)

- £38,400 excluding VAT
- £46,080 including VAT

Same for all lots

CPV classifications, contract locations and contract dates are shown in the Scope section, because they are the same for all lots.

Lot 2. Solar Heating and Cooling (SHC)

Description

The SHC TCP covers solar thermal (flat plate, tube collectors, PV Thermal), solar cooling and covers many solar based technologies such as solar reactors (e.g. for production of hydrogen)

The TCP has a strong focus on the integration of solar thermal technologies into low carbon systems such as district heating and flexible building heat, the scope is deliberately wide and also covers the use of PV to heat.

Lot value (estimated)

- £38,400 excluding VAT
- £46,080 including VAT

Same for all lots

CPV classifications, contract locations and contract dates are shown in the Scope section,

because they are the same for all lots.

Lot 3. District Heating and Cooling (DHC)

Description

The IEA DHC research programme addresses technical and policy issues aimed at lowering environmental impact of heating and cooling.

The IEA DHC deals with the design, performance and operation of distribution systems and consumer installations.

Currently district heating & cooling is still a relatively nascent albeit fast growing sector in the UK whereas European (and international) countries have a significantly more mature DHC Industries from which the UK can benefit from.

Lot value (estimated)

- £38,400 excluding VAT
- £46,080 including VAT

Same for all lots

CPV classifications, contract locations and contract dates are shown in the Scope section, because they are the same for all lots.

Lot 4. User-Centred Energy Systems

Description

The User-Centred Energy Systems mission is to provide evidence from socio-technical

research on the design, social acceptance and usability of clean energy technologies to inform policy making for clean, efficient and secure energy transitions.

Objectives focus on areas where user choices and actions play a large role in determining both the variability and overall level of power and energy use.

Lot value (estimated)

- £38,400 excluding VAT
- £46,080 including VAT

Same for all lots

CPV classifications, contract locations and contract dates are shown in the Scope section, because they are the same for all lots.

Lot 5. Bioenergy

Description

Bioenergy currently provides the largest fraction of renewable energy in the UK; over half of the 15.5% share of total energy consumption from renewables in 2023.

The mission of IEA Bioenergy is to increase knowledge and understanding of bioenergy systems to facilitate the market deployment of environmentally sound, socially acceptable, and cost-competitive, low-carbon bioenergy systems and technologies, and to advise policy and industrial decision makers accordingly.

Lot value (estimated)

- £38,400 excluding VAT

- £46,080 including VAT

Same for all lots

CPV classifications, contract locations and contract dates are shown in the Scope section, because they are the same for all lots.

Lot 6. Energy in Buildings and Communities (EBC)

Description

The EBC TCP coordinates international research and innovation on energy in buildings and communities, with the aim of furthering energy efficiency and decarbonising energy use of the building stock.

Projects typically cover a wide range of research themes spanning from integrated planning and community scale energy systems to thermal fabric of individual buildings and monitoring energy use of these through case studies.

Current priorities include low tech, robust and affordable technology, energy efficient cooling in hot and humid or dry climates, and holistic solution sets on a district level.

Lot value (estimated)

- £38,400 excluding VAT
- £46,080 including VAT

Same for all lots

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Lot 7. International Smart Grid Action Network (ISGAN)

Description

The ISGAN TCP strives for the accelerated development and deployment around the world of smarter, cleaner electricity grids-as in "smart grids".

ISGAN research explores how electricity grids will play a key role in building system flexibility, maintaining system reliability, and enabling more rapid GHG emission reductions through:

Dynamic management of electricity demand

Better utilization of existing electricity generation assets

Integration of growing supplies of both utility-scale and distributed clean energy systems, especially renewables, battery storage, and the expanding fleet of EVs

Lot value (estimated)

- £38,400 excluding VAT
- £46,080 including VAT

Same for all lots

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Lot 8. Photovoltaics Power Systems (PVPS)

Description

The PVPS TCP conducts joint projects in the application of photovoltaic conversion of

solar energy to electricity. This includes tasks related to PV sustainability activities, reliability and performance, transport, off-grid and edge-of-grid PV, and building-integrated PV.

The IEA PVPS programme aims to realise its mission through the following objectives:

PV technology development

Competitive PV markets

An environmentally and economically sustainable PV industry

Policy recommendations and strategies

Impartial and reliable information

Lot value (estimated)

- £38,400 excluding VAT
- £46,080 including VAT

Same for all lots

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Lot 9. Industrial and Energy Related Technologies and Systems (IETS)

Description

The TCP aims to increase awareness of progress in new technologies and energy efficiency opportunities in industry.

The work included in IETS ranges from specific developments of process or energy

technologies to overall system aspects, for practically all types of industry types.

Lot value (estimated)

- £38,400 excluding VAT
- £46,080 including VAT

Same for all lots

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Lot 10. Geothermal (including leading an annex on mine energy)**Description**

The TCP currently undertakes diverse tasks related to environmental impacts, data collection and information, emerging geothermal technologies, geothermal heating and cooling, mine water energy, and subsurface energy storage.

The UK leads the Mine Water Energy Expert group, which facilitates increased exploration of mine water energy across the UK.

The Mine Water Symposium 2024 had speakers and workshops which discussed current schemes, modelling mine water energy systems, thermal storage, raising awareness of mine water energy and regulatory needs.

Lot value (estimated)

- £86,400 excluding VAT
- £103,680 including VAT

Same for all lots

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Participation

Particular suitability

Lot 1. Hydrogen

Lot 2. Solar Heating and Cooling (SHC)

Lot 3. District Heating and Cooling (DHC)

Lot 4. User-Centred Energy Systems

Lot 5. Bioenergy

Lot 6. Energy in Buildings and Communities (EBC)

Lot 7. International Smart Grid Action Network (ISGAN)

Lot 8. Photovoltaics Power Systems (PVPS)

Lot 9. Industrial and Energy Related Technologies and Systems (IETS)

Lot 10. Geothermal (including leading an annex on mine energy)

- Small and medium-sized enterprises (SME)
- Voluntary, community and social enterprises (VCSE)

Submission

Enquiry deadline

15 April 2025, 5:00pm

Tender submission deadline

28 April 2025, 2:00pm

Submission address and any special instructions

To apply for this tender please register on the following website, <https://DESNZgroup.ukp.app.jaggaer.com/>. For any registration queries, please contact the Jaggaer Helpdesk on 08000 698 632 or email customersupport@jaggaer.com.

Tenders may be submitted electronically

Yes

Languages that may be used for submission

English

Award decision date (estimated)

14 May 2025

Award criteria

Lot 1. Hydrogen

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2. Links with community in the technology area	Part of the tasks as Alternate Delegate is to liaise between the TCP and a National Team of UK experts in the technology area, and act as the focal point to disseminate TCP activities in that community. Please present your links to individuals and organisations working in the technology area in the UK. Please map out the links across industry, academia, NGOs and government. An excellent answer will be determined through evidence of participating in collaborative projects, with higher levels of assurance linked to evidence since 2018. Examples could include grant applications, participation in steering boards, etc. The answer to this question is limited to 2 pages. Anything beyond this will not be included in the assessment. Short supporting letters can be included as appendices.	Quality	30%

Name	Description	Type	Weighting
4. Service delivery	Please indicate how you plan on delivering the requirement. The answer should explain how you plan on fitting the role with your existing responsibilities, your planned communication style with the DESNZ Delegate, and a plan for participating in IEA TCP annexes and working groups. The answer should use the tasks mapped out in the relevant pricing model (Section 16.2) as a basis of the service delivery plan. Excellent answers would explain how you plan on delivering the suggested tasks, how they fit with your working pattern, and include an example high level timetable, showing periods where you are likely to be unavailable (e.g. due to teaching). The answer to this question is limited to 2 pages. Anything beyond this will not be included in the assessment	Quality	25%

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1. Technical experience in the TCP area. 1b	1b. Developing research tasks and leading working groups Please provide evidence of expertise for participating and leading specific research tasks. Skills required include: setting up new tasks relative to the subject	Quality	15%

Name	Description	Type	Weighting
	area, identifying gaps, preparing review reports, reviewing research proposals, chairing or participating in steering boards or international committees. An excellent answer will demonstrate ability through past examples. Based on your answer for 1a, please propose at least two research topics for annexes which could benefit from the IEA international platform to develop better understanding or deployment of the technology area. Please demonstrate your capability to chair at a level commensurate with the role i.e. at a UK/international level for relevant bodies such as DESNZ or other leading institutions or bodies in their field. The answer to this question is limited to 2 pages, excluding reference list. Anything beyond two pages will not be read, but the reference list will be cross-referenced. A CV of max 3 pages must be included as an appendix to this question		

Name	Description	Type	Weighting
3. Knowledge transfer plan	Part of the role requirement is to build knowledge and understanding of the technology area in DESNZ. Please indicate a plan to impart technical knowledge and links with industry to the DESNZ Delegates and the IEA TCP as a whole. This answer can include suggestions of conferences to attend, presentations, jointly preparing reports, etc. The answer to this question is limited to 1 page. Anything beyond this will not be included in the assessment.	Quality	10%

Lot 2. Solar Heating and Cooling (SHC)

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Lot 3. District Heating and Cooling (DHC)

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Lot 4. User-Centred Energy Systems

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Lot 5. Bioenergy

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Lot 7. International Smart Grid Action Network (ISGAN)

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4. Service delivery	Please indicate how you plan on delivering the requirement. The answer should explain how you plan on fitting the role with your existing responsibilities, your planned communication style with the DESNZ Delegate, and a plan for participating in IEA TCP annexes and working groups. The answer should use the tasks mapped out in the relevant pricing model (Section 16.2) as a basis of the service delivery plan. Excellent answers would explain how you plan on delivering the suggested tasks, how they fit with your working pattern, and include an example high level timetable, showing periods where you are likely to be unavailable (e.g. due to teaching). The answer to this question is limited to 2 pages. Anything beyond this will not be included in the assessment.	Quality	25%

Name	Description	Type	Weighting
1. Technical experience in the TCP area. 1a	1a - Understanding of the sector in the UK and internationally Please provide your interpretation of the challenges and opportunities in the technology area. Your answer can include (but is not limited to): markets, technologies, standards, regulations, innovations, research areas, knowledge gaps, barriers and issues? An excellent answer will be backed up by evidence (e.g. related publications, presentations, projects), and demonstrate the individual's expertise both within the UK and internationally. The answer to this question is limited to 2 pages, excluding reference list. Anything beyond two pages will not be read, but the reference list will be cross-referenced.	Quality	20%
Technical experience in the TCP area. 1b	1b. Developing research tasks and leading working groups Please provide evidence of expertise for participating and leading specific research tasks. Skills required include: setting up new tasks relative to the subject	Quality	15%

Name	Description	Type	Weighting
	area, identifying gaps, preparing review reports, reviewing research proposals, chairing or participating in steering boards or international committees. An excellent answer will demonstrate ability through past examples. Based on your answer for 1a, please propose at least two research topics for annexes which could benefit from the IEA international platform to develop better understanding or deployment of the technology area. Please demonstrate your capability to chair at a level commensurate with the role i.e. at a UK/international level for relevant bodies such as DESNZ or other leading institutions or bodies in their field. The answer to this question is limited to 2 pages, excluding reference list. Anything beyond two pages will not be read, but the reference list will be cross-referenced. A CV of max 3 pages must be included as an appendix to this question.		

Name	Description	Type	Weighting
3. Knowledge transfer plan	Part of the role requirement is to build knowledge and understanding of the technology area in DESNZ. Please indicate a plan to impart technical knowledge and links with industry to the DESNZ Delegates and the IEA TCP as a whole. This answer can include suggestions of conferences to attend, presentations, jointly preparing reports, etc. The answer to this question is limited to 1 page. Anything beyond this will not be included in the assessment.	Quality	10%

Lot 8. Photovoltaics Power Systems (PVPS)

Name	Description	Type	Weighting
2. Links with community in the technology area	Part of the tasks as Alternate Delegate is to liaise between the TCP and a National Team of UK experts in the technology area, and act as the focal point to disseminate TCP activities in that community. Please present your links to individuals and organisations working in the technology area in the UK. Please map out the links across industry, academia, NGOs and government. An excellent answer will be determined through evidence of participating in collaborative projects, with higher levels of assurance linked to evidence since 2018. Examples could include grant applications, participation in steering boards, etc. The answer to this question is limited to 2 pages. Anything beyond this will not be included in the assessment. Short supporting letters can be included as appendices.	Quality	30%

Name	Description	Type	Weighting
4.Service delivery	Please indicate how you plan on delivering the requirement. The answer should explain how you plan on fitting the role with your existing responsibilities, your planned communication style with the DESNZ Delegate, and a plan for participating in IEA TCP annexes and working groups. The answer should use the tasks mapped out in the relevant pricing model (Section 16.2) as a basis of the service delivery plan. Excellent answers would explain how you plan on delivering the suggested tasks, how they fit with your working pattern, and include an example high level timetable, showing periods where you are likely to be unavailable (e.g. due to teaching). The answer to this question is limited to 2 pages. Anything beyond this will not be included in the assessment.	Quality	25%

Name	Description	Type	Weighting
1. Technical experience in the TCP area. 1a	1a - Understanding of the sector in the UK and internationally Please provide your interpretation of the challenges and opportunities in the technology area. Your answer can include (but is not limited to): markets, technologies, standards, regulations, innovations, research areas, knowledge gaps, barriers and issues? An excellent answer will be backed up by evidence (e.g. related publications, presentations, projects), and demonstrate the individual's expertise both within the UK and internationally. The answer to this question is limited to 2 pages, excluding reference list. Anything beyond two pages will not be read, but the reference list will be cross-referenced.	Quality	20%
Technical experience in the TCP area. 1b	1b. Developing research tasks and leading working groups Please provide evidence of expertise for participating and leading specific research tasks. Skills required include: setting up new tasks relative to the subject	Quality	15%

Name	Description	Type	Weighting
	area, identifying gaps, preparing review reports, reviewing research proposals, chairing or participating in steering boards or international committees. An excellent answer will demonstrate ability through past examples. Based on your answer for 1a, please propose at least two research topics for annexes which could benefit from the IEA international platform to develop better understanding or deployment of the technology area. Please demonstrate your capability to chair at a level commensurate with the role i.e. at a UK/international level for relevant bodies such as DESNZ or other leading institutions or bodies in their field. The answer to this question is limited to 2 pages, excluding reference list. Anything beyond two pages will not be read, but the reference list will be cross-referenced. A CV of max 3 pages must be included as an appendix to this question.		

Name	Description	Type	Weighting
3. Knowledge transfer plan	Part of the role requirement is to build knowledge and understanding of the technology area in DESNZ. Please indicate a plan to impart technical knowledge and links with industry to the DESNZ Delegates and the IEA TCP as a whole. This answer can include suggestions of conferences to attend, presentations, jointly preparing reports, etc. The answer to this question is limited to 1 page. Anything beyond this will not be included in the assessment.	Quality	10%

Lot 9. Industrial and Energy Related Technologies and Systems (IETS)

Name	Description	Type	Weighting
2. Links with community in the technology area	Part of the tasks as Alternate Delegate is to liaise between the TCP and a National Team of UK experts in the technology area, and act as the focal point to disseminate TCP activities in that community. Please present your links to individuals and organisations working in the technology area in the UK. Please map out the links across industry, academia, NGOs and government. An excellent answer will be determined through evidence of participating in collaborative projects, with higher levels of assurance linked to evidence since 2018. Examples could include grant applications, participation in steering boards, etc. The answer to this question is limited to 2 pages. Anything beyond this will not be included in the assessment. Short supporting letters can be included as appendices.	Quality	30%

Name	Description	Type	Weighting
4. Service delivery	Please indicate how you plan on delivering the requirement. The answer should explain how you plan on fitting the role with your existing responsibilities, your planned communication style with the DESNZ Delegate, and a plan for participating in IEA TCP annexes and working groups. The answer should use the tasks mapped out in the relevant pricing model (Section 16.2) as a basis of the service delivery plan. Excellent answers would explain how you plan on delivering the suggested tasks, how they fit with your working pattern, and include an example high level timetable, showing periods where you are likely to be unavailable (e.g. due to teaching). The answer to this question is limited to 2 pages. Anything beyond this will not be included in the assessment	Quality	25%

Name	Description	Type	Weighting
1. Technical experience in the TCP area. 01a	1a - Understanding of the sector in the UK and internationally Please provide your interpretation of the challenges and opportunities in the technology area. Your answer can include (but is not limited to): markets, technologies, standards, regulations, innovations, research areas, knowledge gaps, barriers and issues? An excellent answer will be backed up by evidence (e.g. related publications, presentations, projects), and demonstrate the individual's expertise both within the UK and internationally. The answer to this question is limited to 2 pages, excluding reference list. Anything beyond two pages will not be read, but the reference list will be cross-referenced.	Quality	20%
Technical experience in the TCP area. 1b	1b. Developing research tasks and leading working groups Please provide evidence of expertise for participating and leading specific research tasks. Skills required include: setting up new tasks relative to the subject	Quality	15%

Name	Description	Type	Weighting
	area, identifying gaps, preparing review reports, reviewing research proposals, chairing or participating in steering boards or international committees. An excellent answer will demonstrate ability through past examples. Based on your answer for 1a, please propose at least two research topics for annexes which could benefit from the IEA international platform to develop better understanding or deployment of the technology area. Please demonstrate your capability to chair at a level commensurate with the role i.e. at a UK/international level for relevant bodies such as DESNZ or other leading institutions or bodies in their field. The answer to this question is limited to 2 pages, excluding reference list. Anything beyond two pages will not be read, but the reference list will be cross-referenced. A CV of max 3 pages must be included as an appendix to this question.		

Name	Description	Type	Weighting
3. Knowledge transfer plan	Part of the role requirement is to build knowledge and understanding of the technology area in DESNZ. Please indicate a plan to impart technical knowledge and links with industry to the DESNZ Delegates and the IEA TCP as a whole. This answer can include suggestions of conferences to attend, presentations, jointly preparing reports, etc. The answer to this question is limited to 1 page. Anything beyond this will not be included in the assessment.	Quality	10%

Lot 10. Geothermal (including leading an annex on mine energy)

Name	Description	Type	Weighting
2. Links with community in the technology area	Part of the tasks as Alternate Delegate is to liaise between the TCP and a National Team of UK experts in the technology area, and act as the focal point to disseminate TCP activities in that community. Please map out the links across industry, academia, NGOs and government. An excellent answer will be determined through evidence of participating in collaborative projects, with higher levels of assurance linked to evidence since 2018. Examples could include grant applications, participation in steering boards, etc. Demonstration of links related to the annex area are required for an excellent answer. The answer to this question is limited to 3 pages. Anything beyond this will not be included in the assessment. Short supporting letters can be included as appendices.	Quality	30%

Name	Description	Type	Weighting
4. Service Delivery	please indicate how you plan on delivering the requirement. The answer should explain how you plan on fitting the role with your existing responsibilities, your planned communication style with the DESNZ Delegate, and a plan for participating in IEA TCP annexes and working groups. The answer should include the likely working pattern, and periods where you are likely to be unavailable (e.g. due to teaching). The answer should use the tasks mapped out in the relevant pricing scenario (Section 16.2) as a basis of the service delivery plan. Excellent answers would explain how you plan on delivering the suggested tasks, how they fit with your working pattern, and include an example high level timetable, showing periods where you are likely to be unavailable (e.g. due to teaching). As this lot includes being the operating agent an annex, the service delivery plan should present a brief programme of work for	Quality	25%

Name	Description	Type	Weighting
	leading the relevant annex. This can include key collaborators, suggestions of dates for meetings, and types of information that the AD intends to gather through the annex work. The answer to this question is limited to 3 pages. Anything beyond this will not be included in the assessmen.		

Name	Description	Type	Weighting
1a-Technical experience in the TCP area.	1a - Understanding of the sector in the UK and internationally Please provide your interpretation of the challenges and opportunities in the technology area. Your answer can include (but is not limited to): markets, technologies, standards, regulations, innovations, research areas, knowledge gaps, barriers and issues? An excellent answer will be backed up by evidence (e.g. related publications, presentations, projects), and demonstrate the individual's expertise both within the UK and internationally. Please provide your interpretation of challenges in the annex area in particular (Mine water energy systems for Lot 10). The answer to this question is limited to 3 pages, excluding reference list. Anything beyond three pages will not be read, but the reference list will be cross-referenced.	Quality	20%

Name	Description	Type	Weighting
1b- Technical experience in the TCP area.	01b - Developing research tasks and leading working groups Please provide evidence of expertise for participating and leading specific research tasks. Skills required include: setting up new tasks relative to the subject area, identifying gaps, preparing review reports, reviewing research proposals, chairing or participating in steering boards or international committees. An excellent answer will demonstrate ability through past examples. Based on your answer for 1a, please propose at least two research topics for annexes which could benefit from the IEA international platform to develop better understanding or deployment of the technology area. Please demonstrate your capability to chair at a level commensurate with the role i.e. at a UK/international level for relevant bodies such as DESNZ or other leading institutions or bodies in their field. The answer to this question is	Quality	15%

Name	Description	Type	Weighting
	limited to 2 pages, excluding reference list. Anything beyond two pages will not be read, but the reference list will be cross-referenced. A CV of max 3 pages must be included as an appendix to this question		
3. Knowledge transfer plan	Part of the role requirement is to build knowledge and understanding of the technology area in DESNZ. Please indicate a plan to impart technical knowledge and links with industry to the DESNZ Delegates and the IEA TCP as a whole. This answer can include suggestions of conferences to attend, presentations, jointly preparing reports, etc. The answer to this question is limited to 1 page. Anything beyond this will not be included in the assessment.	Quality	10%

Other information

Conflicts assessment prepared/revised

Yes

Procedure

Procedure type

Open procedure

Justification for not publishing a preliminary market engagement notice

A notice was incorrectly posted using a prior PCR format, this notice can be found at <https://www.find-tender.service.gov.uk/Notice/008612-2025>.

Therefore, all information to the engagement was accessible on the central platform, but formatted incorrectly. This mistake was identified after the engagement had occurred.

The slides shown on the supplier day are published alongside this tender notice, no further information was given at the preliminary market engagement event.

Contracting authority

Department for Energy Security & Net Zero

- Public Procurement Organisation Number: PDHQ-2163-WYMH

55 Whitehall

London

SW1A 2HP

United Kingdom

Email: commercialexcellence@ics.gov.uk

Region: UKI32 - Westminster

Organisation type: Public authority - central government